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

1.1 Product identifier

CARTRIDGES, SHOTSHELL 8 GAUGE INDUSTRIAL

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

1.2.1 Relevant uses

Shotgun cartridges

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

V. Parbst & Son
Borsholmvej 41
3000 Helsingør / DENMARK
Phone +45 49 76 54 00
Fax +45 49 76 54 20
Homepage www.parbst.dk
E-mail winchester@parbst.dk

Address enquiries to

Technical information 8gauge@olin.com

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +45 (0) 49 765400 09:00 - 15:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Expl. 1.4: H204 Fire or projection hazard.
Repr. 1A: H360Df May damage the unborn child. Suspected of damaging fertility.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.
Lact.: H362 May cause harm to breast-fed children.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms

Signal word DANGER

Contains: Lead 2,4,6-trinitro-m-phenylene dioxide

Blei, massiv (>=1mm)

Hazard statements

H204 Fire or projection hazard.
H360Df May damage the unborn child. Suspected of damaging fertility.
H411 Toxic to aquatic life with long lasting effects.
H362 May cause harm to breast-fed children.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P250 Do not subject to grinding/shock/friction/…
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P370+P380 In case of fire: Evacuate area.
P501 Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

Human health dangers The contained dangerous materials are not freely available with foreseeable use.

Environmental hazards The contained dangerous materials are not freely available with foreseeable use.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
65 - 75	Blei, massiv (>=1mm)
	CAS: 7439-92-1, EINECS/ELINCS: 231-100-4, EU-INDEX: 082-014-00-7
	GHS/CLP: Repr. 1A: H360FD - Lact.: H362
1 - 6	Zinc powder - zinc dust (pyrophoric)
	CAS: 7440-66-6, EINECS/ELINCS: 231-175-3
	GHS/CLP: Water-react. 1: H260 - Pyr. Sol. 1: H250 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410
1 - 5	Nitrocellulose
	CAS: 9004-70-0, EINECS/ELINCS: Polymer
	GHS/CLP: Expl. 1.1: H201 - Flam. Sol. 1: H228
0,1 - 1,1	Arsenic
	CAS: 7440-38-2, EINECS/ELINCS: 231-148-6, EU-INDEX: 033-001-00-X
	GHS/CLP: Acute Tox. 3: H301 - Acute Tox. 3: H331 - Aquatic Chronic 1: H410 - Aquatic Acute 1: H400
0,1 - 1	Lead 2,4,6-trinitro-m-phenylene dioxide
	CAS: 15245-44-0, EINECS/ELINCS: 239-290-0, EU-INDEX: 609-019-00-4
	GHS/CLP: Unst. Expl.: H200 - Repr. 1A: H360Df - Acute Tox. 4: H302 H332 - STOT RE 2: H373 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410

Comment on component parts The structural design prevents release of the hazardous media contained therein when the unit is used for its intended purpose.
SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0.1%
CAS 15245-44-0 - Lead 2,4,6-trinitro-m-phenylene dioxide
CAS 7439-92-1 - Blei, massiv (>=1mm)
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Measures apply only to the damaged product.

Inhalation Not required under normal conditions.
Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact Not required under normal conditions.
When in contact with the skin, clean with soap and water.
In the event of symptoms seek medical treatment.

Eye contact Not required under normal conditions.
In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.

Ingestion Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Bursting Cartridges can be forcibly projected from a fire.
Nitrogen oxides (NOx).
Metal oxides.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove persons to safety.
Some risk of slipping due to spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Handle with care - avoid shock, friction and impact.

Keep away from open flames, hot surfaces and sources of ignition.
Ground/bond container and receiving equipment.

Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store with combustible materials.
Do not store together with oxidizing agents.

Store to in accordance with national regulation.
Keep in a well-ventilated place.
Protect from heat/overheating.

7.3 Specific end use(s)

See product information.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
lead metal massives (with arsenic)
CAS: 7439-92-1, EINECS/ELINCS: 231-100-4
Long-term exposure: 0,15 mg/m³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
lead metal massives (with arsenic)
CAS: 7439-92-1, EINECS/ELINCS: 231-100-4
Eight hours: 0,15 mg/m³, inhalable aerosol

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	Not required under normal conditions. The details concerned are recommendations. Please contact the glove supplier for further information. Leather gloves.
Skin protection	Not required under normal conditions.
Other	not applicable
Respiratory protection	Not required under normal conditions.
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Plastic Cylinder with brass head
Color	various
Odor	odourless
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/ml]	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not applicable
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.
Avoid bumps, friction and impact.
Strong heating.
Physical demage to containers; cartridges may detonate if case is punctured.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.
Toxic gases/vapours.
Toxic metal compounds.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Nitrocellulose, CAS: 9004-70-0
LD50, oral, Rat: 5000 mg/kg bw (GESTIS).

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	May damage the unborn child. Suspected of damaging fertility. Calculation method
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	
	Toxicological data of complete product are not available. The contained dangerous materials are not freely available with foreseeable use.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Zinc powder - zinc dust (pyrophoric), CAS: 7440-66-6
LC50, (96h), fish: 2,01 mg/L (GESTIS).
EC50, (72h), Algae: 0,713 mg/L (GESTIS).
EC50, (48h), Crustacea: 1,33 mg/L (GESTIS).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	The methods for determining the boilogical degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 160401* waste ammunition

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150101

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID	0012
Inland navigation (ADN)	0012
Marine transport in accordance with IMDG	0012
Air transport in accordance with IATA	0012

14.2 UN proper shipping name

Transport by land according to ADR/RID	Cartridges for Weapons, inert Projectile
- Classification Code	1.4S
- Label	
- ADR LQ	0 l
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 4 (E)
Inland navigation (ADN)	Cartridges for Weapons, inert Projectile
- Classification Code	1.4S
- Label	
Marine transport in accordance with IMDG	Cartridges for Weapons, inert Projectile
- EMS	F-B, S-X
- Label	
- IMDG LQ	0kg
Air transport in accordance with IATA	Cartridges for Weapons, inert Projectile
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	1
Inland navigation (ADN)	1
Marine transport in accordance with IMDG	1.4 S
Air transport in accordance with IATA	1.4 S

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	yes
Inland navigation (ADN)	yes
Marine transport in accordance with IMDG	MARINE POLLUTANT
Air transport in accordance with IATA	yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
- VOC (2010/75/CE)	0%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H373 May cause damage to organs through prolonged or repeated exposure.
H302+H332 Harmful if swallowed or if inhaled.
H360Df May damage the unborn child. Suspected of damaging fertility.
H200 Unstable explosives.
H331 Toxic if inhaled.
H301 Toxic if swallowed.
H228 Flammable solid.
H201 Explosive; mass explosion hazard.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H250 Catches fire spontaneously if exposed to air.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H362 May cause harm to breast-fed children.
H360FD May damage fertility. May damage the unborn child.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Customs Tariff not determined

Classification procedure

Expl. 1.4: H204 Fire or projection hazard. (On basis of test data)
Repr. 1A: H360Df May damage the unborn child. Suspected of damaging fertility. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)
Lact.: H362 May cause harm to breast-fed children. (Calculation method)

Modified position

SECTION 2 been added: P264 Wash hands thoroughly after handling.

SECTION 2 been added: P273 Avoid release to the environment.

SECTION 2 been added: H362 May cause harm to breast-fed children.

SECTION 2 been added: Lact.

SECTION 2 been added: H411 Toxic to aquatic life with long lasting effects.

SECTION 2 been added: Aquatic Chronic 2

SECTION 2 deleted: Aquatic Chronic 1

SECTION 2 deleted: Aquatic Acute 1

SECTION 4 been added: Measures apply only to the damaged product.

SECTION 12 been added: The methods for determining the boilogical degradability are not applicable to inorganic substances.