

MSDS Control Group Olin Brass and Winchester, Inc.
East Alton, IL 62024-1273

Date printed 02.08.2013, Revision 02.08.2013

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SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

CARTRIDGES FOR POWER DEVICES

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

1.2.1 Relevant uses

Cartridges for tools

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

MSDS Control Group Olin Brass and Winchester, Inc.

600 Powder Mill Road
East Alton, IL 62024-1273 / USA
Phone +1 618-258-3534
Fax +1 618-258-3393
Homepage www.winchester.com
E-mail 8gauge@olin.com

Address enquiries to

Technical information

8gauge@olin.com

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

Company

+1 618-258-3534 Mo-Fr 8:00 - 16:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

see SECTION 16

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

No classification.

2.2 Label elements

This product is an article and therefore it does not require labelling according to EC directives/GefStoffV.

2.3 Other hazards

Physico-chemical hazards

This articles can be ignited by heat, sparks, flames or other sources of ignition (E.g. ignition flame, static electricity, mechanical/electrical equipment).

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

Disassembly of articles is prohibited.

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SECTION 3: Composition / Information on ingredients

3.1 Product-type:

The product is an article.

Range [%]	Substance
50 - 65	Copper CAS: 7440-50-8, EINECS/ELINCS: 231-159-6
15 - 32	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 EEC: F-N, R 15-17-50/53
7 - 13	Nitrocellulose CAS: 9004-70-0, EINECS/ELINCS: Polymer EEC: E, R 2
0,5 - 2	Glycerol trinitrate CAS: 55-63-0, EINECS/ELINCS: 200-240-8, EU-INDEX: 603-034-00-x GHS/CLP: Acute Tox. 2: H300 H310 H330 - STOT RE 2: H373 - Aquatic Chronic 2: H411 - Unst. Expl.: H200 EEC: E-T+-N, R 3-26/27/28-33-51/53
0,5 - 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 EEC: E-T-N, R 3-20/22-33-50/53-61-62

Comment on component parts

SVHC (Candidate List of Substances of Very High Concern for authorisation) \geq 0,1%
 CAS 15245-44-0 - Lead 2,4,6-trinitro-m-phenylene dioxide
 For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

First aid is required only when the leakage of ingredients or emergence of decomposition products.
 Change soaked clothing immediately.
 Adhere to personal protective measures when giving first aid.

Inhalation

After inhalation of decomposition products:
 Remove the victim into fresh air and keep him calm.
 In the event of symptoms seek for medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
 In the event of symptoms seek for medical treatment.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.

Ingestion

Consult a doctor immediately.
 Do not induce vomiting.
 Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

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
 Fire-fighting procedures from a safe distance.

Extinguishing media that must not be used

Full water jet

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5.2 Special hazards arising from the substance or mixture

Bursting Cartridges can be forcibly projected from a fire.
Unknown risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Nitrogen oxides (NOx).
Metal oxides.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Wear full protective suit.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Collect contaminated firefighting water separately, must not be discharged into the drains.

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.
Flush away residues with water.
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

No special measures necessary if used correctly.
Use only in well-ventilated areas.
The article is explosive.
Keep away from all sources of ignition - Refrain from smoking.
Handle with care - avoid shock, friction, impact.
Wear anti-static shoes and work clothes.
Take precautionary measures against static discharges.
Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with oxidizing agents.
Do not store with combustible materials.
Keep in a well-ventilated place.
Protect from heat/overheating.
Keep under lock and key. Should only be accessible to specialists or people authorized by them.

7.3 Specific end use(s)

See product information.

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
50 - 65	Copper
	CAS: 7440-50-8, EINECS/ELINCS: 231-159-6
	Long-term exposure: 1 mg/m ³ , dusts and mists (as Cu), 0,2mg/m ³ * (fume)
	Short-term exposure (15-minute): 2 mg/m ³
0,5 - 2	Glycerol trinitrate
	CAS: 55-63-0, EINECS/ELINCS: 200-240-8, EU-INDEX: 603-034-00-x
	Long-term exposure: 0,2 ppm, 1,9 mg/m ³
	Short-term exposure (15-minute): 0,2 ppm, 1,9 mg/m ³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	safety glasses
Hand protection	Not required under normal conditions. Leather gloves.
Skin protection	Flame retardant antistatic protective clothing. Hearing protectors
Other	not applicable
Respiratory protection	Not required under normal conditions.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Cylindrical brass cartridge
Color	not determined
Odor	not applicable
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing 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 applicable
Autoignition temperature [°C]	not applicable
Decomposition temperature	not applicable

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9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Heating may cause an explosion.

Shock / pressure: Risk of explosion

10.4 Conditions to avoid

Strong heating.

Avoid bumps, friction and impact.

10.5 Incompatible materials

Reactions with strong acids and alkalies.

10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
50 - 65	Copper, CAS: 7440-50-8
	LD50, oral, mouse: 0,7 mg/kg (IUCLID).
0,5 - 2	Glycerol trinitrate, CAS: 55-63-0
	LD50, oral, Rat: 105 mg/kg (IUCLID).
	LD50, dermal, Rabbit: > 280 mg/kg (IUCLID).

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity not determined

General remarks

The contained ingredients can be harmful to humans, but are hermetically enclosed in article and can not be released.
Disassembly of article is prohibited.

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
50 - 65	Copper, CAS: 7440-50-8
	LC50, (48h), Gambusia affinis: 0,18 mg/L (IUCLID).
0,5 - 2	Glycerol trinitrate, CAS: 55-63-0
	EC50, (48h), Daphnia magna: 46 - 55 mg/l (IUCLID).
	LC50, (96h), Lepomis macrochirus: 1,38 mg/l (IUCLID).
15 - 32	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	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

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.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

The contained ingredients can be harmful for the environment, but they are hermetically enclosed in article and can not be released.

Disassembly of article is prohibited.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. 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

Coordinate disposal with the disposal contractor/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

See SECTION 14.2 in accordance with UN shipping name





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14.2 UN proper shipping name

Transport by land according to ADR/RID	UN 0014 Cartridges for tools, blank 1.4
- Classification Code	1.4S
- Label	
- ADR LQ	5 kg
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 4 (E)
Inland navigation (ADN)	UN 0014 Cartridges for tools, blank 1.4
- Classification Code	1.4S
- Label	
Marine transport in accordance with IMDG	UN 0014 Cartridges for tools, blank 1.4 S -
- EMS	F-B, S-X
- Label	
- IMDG LQ	5kg
Air transport in accordance with IATA	UN 0014 Cartridges for tools, blank 1.4S
- Label	

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 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	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (1999/13/CE)	0 %

15.2 Chemical safety assessment

not applicable

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SECTION 16: Other information

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

Hazard pictograms



Signal word

WARNING

Expl. 1.4: H204 Fire or projection hazard.

16.2 R-phrases (SECTION 3)

R 2: Risk of explosion by shock, friction, fire or other sources of ignition.
R 3: Extreme risk of explosion by shock, friction, fire or other sources of ignition.
R 26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.
R 33: Danger of cumulative effects.
R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 20/22: Harmful by inhalation and if swallowed.
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 61: May cause harm to the unborn child.
R 62: Possible risk of impaired fertility.
R 15: Contact with water liberates extremely flammable gases.
R 17: Spontaneously flammable in air.

16.3 Hazard statements (SECTION 3)

H250 Catches fire spontaneously if exposed to air.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H302+H332 Harmful if swallowed or if inhaled.
H360Df May damage the unborn child. Suspected of damaging fertility.
H200 Unstable explosives.
H411 Toxic to aquatic life with long lasting effects.
H373 May cause damage to organs through prolonged or repeated exposure.
H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.

16.4 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
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
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
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

16.5 Other information

Customs Tariff

not determined

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Modified position

none

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