



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

Date printed 18.08.2022, Revision 18.08.2022

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

### 1.1 Product identifier

**CARTRIDGE STRIPS - FOR TOOLS, POWER DEVICES  
V4LVS27Y, V6REDLVS27, V7BLKLV27**

### 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. JCP Construction Products  
600 Powder Mill Road Unit 14 Teddington Business Park  
East Alton, IL 62024-1273 / USA Station Rd.  
Phone +1 618-258-3534 Teddington  
Fax +1 618-258-3393 TW11 9BQ  
Homepage [www.winchester.com](http://www.winchester.com)  
E-mail [8gauge@olin.com](mailto:8gauge@olin.com)

Tel: +44 208 943 1800

Fax: +44 208 943 1140

#### Address enquiries to

#### Technical information

[8gauge@olin.com](mailto:8gauge@olin.com)

[www.jcpfixings.co.uk](http://www.jcpfixings.co.uk)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

[jcpenquiries@owlett-jaton.com](mailto:jcpenquiries@owlett-jaton.com)

### 1.4 Emergency telephone number

#### Advisory body

Call NHS 111 or a doctor

+44 (0)208 943 1800

#### Company

+45 49 76 54 00 Mo-Fr 8:00 h - 16:00 h

8.30am-5.00pm Monday to Friday

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

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.

Acute Tox. 3: H301+H311 Toxic if swallowed or in contact with skin.

Acute Tox. 4: H332 Harmful if inhaled.

## 2.2 Label elements

	The product is required to be labelled in accordance with regulation CLP.	
<b>Hazard pictograms</b>	   	
<b>Signal word</b>	DANGER	
<b>Contains:</b>	Glycerol trinitrate Lead 2,4,6-trinitro-m-phenylene dioxide	
<b>Hazard statements</b>	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. H301+H311 Toxic if swallowed or in contact with skin. H332 Harmful if inhaled.	
<b>Precautionary statements</b>	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

<b>Human health dangers</b>	The contained ingredients can be harmful to humans, but are hermetically enclosed in article and can not be released.
<b>Environmental hazards</b>	Does not contain any PBT or vPvB substances.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
2 - 13	Cellulose nitrate CAS: 9004-70-0, EINECS/ELINCS: 682-719-5 GHS/CLP: Expl. 1.1: H201
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
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

### Comment on component parts

The contained dangerous materials are not freely available with foreseeable use. 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  
 The contained ingredients can be harmful to humans, but are hermetically enclosed in article and can not be released.  
 For full text of H-statements: see SECTION 16.



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#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

<b>General information</b>	Measures apply only to the damaged product.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.
<b>Ingestion</b>	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 your doctor.

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Foam, dry powder, water spray jet, carbon dioxide
<b>Extinguishing media that must not be used</b>	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 (NO<sub>x</sub>).

##### 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 with the local regulations.

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Measures apply only to the damaged product.  
Remove persons to safety.  
Use personal protection (including gloves and a suitable dust mask).

##### 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.  
Avoid raising dust.  
Dispose of absorbed material in accordance with the regulations.

##### 6.4 Reference to other sections

See SECTION 8+13



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## 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
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 <sup>3</sup>
Short-term exposure (15-minute): 0,2 ppm, 1,9 mg/m <sup>3</sup>

#### Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Glycerol trinitrate
CAS: 55-63-0, EINECS/ELINCS: 200-240-8, EU-INDEX: 603-034-00-x
Eight hours: 0,01 ppm, 0,095 mg/m <sup>3</sup> , skin
Short-term (15-minute): 0,02 ppm, 0,19 mg/m <sup>3</sup>

### 8.2 Exposure controls

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



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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Cartridge
Color	not determined
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/cm <sup>3</sup> ]	not determined
Relative density	not determined
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not applicable
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Auto-ignition temperature	not applicable
Decomposition temperature [°C]	not applicable
Particle characteristics	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

Shock / pressure: Risk of explosion

### 10.4 Conditions to avoid

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



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## 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

Product
ATE-mix, oral, 248 mg/kg
Substance
Glycerol trinitrate, CAS: 55-63-0
LD50, oral, Rat, 105 mg/kg (IUCLID)

#### Acute dermal toxicity

Product
ATE-mix, dermal, 250 mg/kg
Substance
Glycerol trinitrate, CAS: 55-63-0
LD50, dermal, Rabbit, > 280 mg/kg (IUCLID)

#### Acute inhalational toxicity

Product
ATE-mix, inhalativ (dust), 2.46 mg/L

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

### 11.2 Information on other hazards

<b>Endocrine disrupting properties</b>	Contains no ingredients with endocrine-disrupting properties.
<b>Other information</b>	none



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## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Glycerol trinitrate, CAS: 55-63-0
LC50, (96h), Lepomis macrochirus, 1.38 mg/l (IUCLID)
EC50, (48h), Daphnia magna, 46 - 55 mg/l (IUCLID)

### 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not applicable

### 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 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

Ecological data of complete product are not available.

## 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

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



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## SECTION 14: Transport information

### 14.1 UN number or ID number

Transport by land according to ADR/RID 0014

Inland navigation (ADN) 0014

Marine transport in accordance with IMDG 0014

Air transport in accordance with IATA 0014

### 14.2 UN proper shipping name

Transport by land according to ADR/RID CARTRIDGES FOR WEAPONS, BLANK

- 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) CARTRIDGES FOR WEAPONS, BLANK

- Classification Code 1.4S

- Label



Marine transport in accordance with IMDG Cartridges for tools, blank

- EMS F-B, S-X

- Label



- IMDG LQ 5kg

Air transport in accordance with IATA Cartridges for tools, blank

- 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





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#### 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 Maritime transport in bulk according to IMO instruments

No information available.

### SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- 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 3)

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.  
H201 Explosive; mass explosion hazard.



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## 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  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
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  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
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

### 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)  
Acute Tox. 3: H301+H311 Toxic if swallowed or in contact with skin. (Calculation method)  
Acute Tox. 4: H332 Harmful if inhaled. (Calculation method)

### Modified position

SECTION 3 been added: The concentrations of the ingredients are valid for Electrolyte. They are not for the complete system.



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