

DEWALT
65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017

Version 02. Supersedes version: 01

Page 1 / 11

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

1.1 Product identifier

CARTRIDGES - FOR TOOLS, BLANK or POWDER LOAD

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

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1.4 Emergency telephone number

Advisory body CHEMTREC: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Expl. 1.4: H204 Fire or projection hazard.
Repr. 1A: H360Df May damage the unborn child. Suspected of damaging fertility.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

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

Hazard statements

H204 Fire or projection hazard.
H360Df May damage the unborn child. Suspected of damaging fertility.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P250 Do not subject to grinding/shock/friction.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P308+P311 IF exposed or concerned: Call a POISON CENTER / doctor.
P370+P380 In case of fire: Evacuate area.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling

Restricted to professional users.

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.



DEWALT
 65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017

Version 02. Supersedes version: 01

Page 2 / 11

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
0 - 97	Iron CAS: 7439-89-6, EINECS/ELINCS: 231-096-4
50 - 65	Copper CAS: 7440-50-8, EINECS/ELINCS: 231-159-6
15 - 32	Zinc metal (massive) CAS: 7440-66-6, EINECS/ELINCS: 231-175-3
2 - 13	Nitrocellulose CAS: 9004-70-0, EINECS/ELINCS: Polymer 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
0,1 - 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
 For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	The contained dangerous materials are not freely available with foreseeable use.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. In the event of symptoms seek medical treatment.
Eye contact	In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.
Ingestion	Rinse out mouth and give plenty of water to drink. 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

DEWALT
65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017

Version 02. Supersedes version: 01

Page 3 / 11

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_x).

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 are only valid for damaged systems.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

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 with 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.
Store in a dry place.

7.3 Specific end use(s)

See product information.

DEWALT
65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017

Version 02. Supersedes version: 01

Page 4 / 11

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

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 ³ , skin
Short-term (15-minute): 0,02 ppm, 0,19 mg/m ³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	safety glasses
Hand protection	Leather gloves. The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing.
Other	The contained dangerous materials are not freely available with foreseeable use.
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.

DEWALT
65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017

Version 02. Supersedes version: 01

Page 5 / 11

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Cartridge
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/m ³]	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

Heating may cause an 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.

10.5 Incompatible materials

See SECTION 10.3.

DEWALT
 65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017

Version 02. Supersedes version: 01

Page 6 / 11

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, inhalative, Based on the available information, the classification criteria are not fulfilled.:
ATE-mix, dermal, Based on the available information, the classification criteria are not fulfilled.:
ATE-mix, oral, Based on the available information, the classification criteria are not fulfilled.:
Substance
Copper, CAS: 7440-50-8
LD50, oral, mouse: 0,7 mg/kg (IUCLID).
Glycerol trinitrate, CAS: 55-63-0
LD50, dermal, Rabbit: > 280 mg/kg (IUCLID).
LD50, oral, Rat: 105 mg/kg (IUCLID).

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.
 Based on the available information, the classification criteria are fulfilled.
 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
Copper, CAS: 7440-50-8
LC50, (48h), Gambusia affinis: 0,18 mg/L (IUCLID).
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 No information available.

Behaviour in sewage plant No information available.

Biological degradability No information available.

DEWALT
65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017

Version 02. Supersedes version: 01

Page 7 / 11

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 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

SECTION 14: Transport information

14.1 UN 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


DEWALT
65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017


Version 02. Supersedes version: 01


Page 8 / 11

14.2 UN proper shipping name

Transport by land according to ADR/RID Cartridges for tools, 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 tools, 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 1.4S

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

DEWALT
65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017

Version 02. Supersedes version: 01

Page 9 / 11

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

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 (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

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)

H201 Explosive; mass explosion hazard.
H411 Toxic to aquatic life with long lasting effects.
H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
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.

DEWALT
65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017

Version 02. Supersedes version: 01

Page 10 / 11

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 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

DEWALT
65510 Idstein

Date printed 23.10.2017, Revision 06.10.2017

Version 02. Supersedes version: 01

Page 11 / 11

Modified position

SECTION 2 been added: P370+P380 In case of fire: Evacuate area.

SECTION 2 been added: Aquatic Chronic 3

SECTION 4 been added: Rinse out mouth and give plenty of water to drink.

SECTION 4 been added: The contained dangerous materials are not freely available with foreseeable use.

SECTION 6 been added: Use personal protective equipment (protective gloves, safety glasses, protective clothing).

SECTION 6 been added: Measures are only valid for damaged systems.

SECTION 7 been added: Store in a dry place.

SECTION 8 been added: The contained dangerous materials are not freely available with foreseeable use.

SECTION 8 been added: Protective clothing.

SECTION 8 been added: safety glasses

SECTION 8 been added: In full contact:

SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

SECTION 10 been added: Heating may cause an explosion.

SECTION 11 been added: Based on the available information, the classification criteria are fulfilled.



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