

DEWALT
65510 Idstein

Date printed 15.05.2023, Revision 10.05.2023

Version 3.0

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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

Company

DEWALT
Richard Klinger Str. 11
65510 Idstein / GERMANY
Phone +49 (0) 6126212302
Fax +49 (0) 6126 21 2980
Homepage www.DEWALT.eu

Address enquiries to

Technical information

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Company

+49 (0) 6126212302

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Expl. 1.4: H204 Fire or projection hazard.

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)

Hazard pictograms



Signal word

WARNING

Hazard statements

H204 Fire or projection hazard.

Precautionary statements

P210 Keep away from flames and hot surfaces. No smoking.
P234 Keep only in original container.
P250 Do not subject to grinding/shock/friction.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P380 In case of fire: Evacuate area.
P374 Fight fire with normal precautions from a reasonable distance.

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. Contains no ingredients with endocrine-disrupting properties.

Environmental hazards

The contained dangerous materials are not freely available with foreseeable use. Contains no ingredients with endocrine-disrupting properties. Does not contain any PBT or vPvB substances.

Other hazards

Disassembly of articles is prohibited.

This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

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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
0.5 - 2	Glycerol trinitrate CAS: 55-63-0
0.1 - 1	Lead 2,4,6-trinitro-m-phenylene dioxide CAS: 15245-44-0

Comment on component parts

The structural design prevents release of the hazardous media contained therein when the unit is used for its intended purpose.
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.
For full text of H-statements: 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 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

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

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

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 projected from a fire.
Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Nitrogen oxides (NOx).

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.

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

No special measures necessary if used correctly.
Use only in well-ventilated areas.

The article is explosive.
Keep away from open flames, hot surfaces and sources of ignition.
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.

Store in accordance with national regulation.

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 (US)

Substance
Glycerol trinitrate
CAS: 55-63-0
Long-term exposure: OSHA
Short-term exposure (15-minute): 0,2 ppm, 2 mg/m ³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	safety glasses (EN 166:2001)
Hand protection	Not required under normal conditions. Leather gloves.
Skin protection	Flame retardant antistatic protective clothing. Hearing protectors Not applicable
Respiratory protection	Not required under normal conditions.
Thermal hazards	Not applicable
Delimitation and monitoring of the environmental exposition	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	Solid
Form	Cartridge
Color	metallic
Odor	Not applicable
Odor threshold	Not applicable
pH-value	Not applicable
pH-value [1%]	Not applicable
Boiling point [°C]	Not applicable
Flash point [°C]	Not applicable
Flammability	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Oxidizing properties	No
Vapor pressure/gas pressure [kPa]	Not applicable
Density [g/cm ³]	Not determined
Relative density	Not determined
Bulk density [kg/m ³]	Not applicable
Solubility in water	insoluble
Solubility other solvents	Not applicable
Partition coefficient [n-octanol/water]	Not applicable
Kinematic viscosity	Not applicable
Relative vapour density	Not applicable
Evaporation speed	Not applicable
Melting point [°C]	Not applicable
Auto-ignition temperature [°C]	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

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.



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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/vapors.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product
ATE-mix, oral, Based on the information available, the classification criteria have not been fulfilled.
Substance
Glycerol trinitrate, CAS: 55-63-0
LD50, oral, Rat, 105 mg/kg (IUCLID)

Acute dermal toxicity

Product
ATE-mix, dermal, Based on the information available, the classification criteria have not been fulfilled.
Substance
Glycerol trinitrate, CAS: 55-63-0
LD50, dermal, Rabbit, > 280 mg/kg (IUCLID)

Acute inhalational toxicity

Product
ATE-mix, inhalative, Based on the information available, the classification criteria have not been fulfilled.

Serious eye damage/irritation	Based on the information available, the classification criteria have not been fulfilled.
Skin corrosion/irritation	Based on the information available, the classification criteria have not been fulfilled.
Respiratory or skin sensitisation	Based on the information available, the classification criteria have not been fulfilled.
Specific target organ toxicity — single exposure	Based on the information available, the classification criteria have not been fulfilled.
Specific target organ toxicity — repeated exposure	Based on the information available, the classification criteria have not been fulfilled.
Mutagenicity	Based on the information available, the classification criteria have not been fulfilled.
Reproduction toxicity	Based on the information available, the classification criteria have not been fulfilled.
Carcinogenicity	Based on the information available, the classification criteria have not been fulfilled.
Aspiration hazard	Based on the information available, the classification criteria have not been fulfilled.
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

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 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 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 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

Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

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SECTION 14: Transport

14.1 UN number

Transport by land according to ADR/RID Not applicable

Inland navigation (ADN) Not applicable

Marine transport in accordance with IMDG 0014

Air transport in accordance with IATA 0014

DOT Road Shipment Information (49 CFR) 0014

14.2 UN proper shipping name

Transport by land according to ADR/RID Not applicable

Inland navigation (ADN) Not applicable

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 

DOT Road Shipment Information (49 CFR) UN/NA 0014 Cartridges for tools, blank 1.4 S

- Label 

14.3 Transport hazard class(es)

Transport by land according to ADR/RID Not applicable

Inland navigation (ADN) Not applicable

Marine transport in accordance with IMDG 1.4 S

Air transport in accordance with IATA 1.4 S

DOT Road Shipment Information (49 CFR) 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

DOT Road Shipment Information (49 CFR) Not applicable

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

DOT Road Shipment Information (49 CFR) 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.

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SECTION 15: Regulatory information

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

US Regulations

National regulations

29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65

- SARA, 302

This product does not contain any ingredients regulated under this list.

- SARA, 311

This product does not contain any ingredients regulated under this list.

- SARA, 313

This product contain one ingredient regulated under this list(40 CFR part 372.65): CAS 55-63-0

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

- CA Proposition 65

Some chemical substances Lead and lead compounds in this material are named in California-P65 list.

- TSCA

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

- FDA

Not applicable

American Conference of Governmental Industrial Hygienists - ACGIH

CAS 55-63-0

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

International Agency for Research on Cancer IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

National Toxicology Program - NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

HAP-VOC

Not applicable

Transport-regulations

DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

15.2 Chemical safety assessment

Not applicable

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SECTION 16: Other information

16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;
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;
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;
CFR = Code of Federal Regulations;
CPR = Controlled Products Regulations;
DMEL = Derived Minimum Effect Level;
DNEL = Derived No Effect Level;
DOT = Department of Transportation;
EC50 = Median effective concentration;
EPA = Environmental Protection Agency;
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;
IARC = International Agency of Research on Cancer;
IATA = International Air Transport Association;
TSCA = Toxic Substance Control Act;
HMIS = Hazardous Materials Identification System;
NFPA = National Fire Protection Association;
NIOSH = National Institute for Occupational Safety and Health;
OSHA = Occupational Safety and Health Administration;
LC50 = Lethal concentration, 50%;
LD50 = Median lethal dose, 50%;
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;
SARA = Superfund Amendments and Reauthorization Act;
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;

16.2 Ratings

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NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard
LEFT, HEALTH: 0 - Minimal Hazard
RIGHT, REACTIVITY: 2 - Moderate Hazard
BOTTOM, SPECIAL NOTICE: EXP - Explosive

HMIS Ratings

HEALTH	0	0 - Minimal Hazard
FLAMMABILITY	1	1 - Slight Hazard
PHYSICAL HAZARD	2	2 - Moderate Hazard
PERSONAL PROTECTION	B	B - Safety Glasses and Gloves

PERSONAL PROTECTION:

- A - Safety Glasses
- B - Safety Glasses and Gloves
- C - Safety Glasses, Gloves and Protection Apron
- D - Face Shield, Gloves and Protection Apron
- E - Safety Glasses, Gloves and Dust Respirator
- F - Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G - Safety Glasses, Gloves and Vapor Respirator.
- H - Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I - Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J - Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K - Airline Mask or Hood, Gloves, Full Suit and Boots.
- X - Personal protection rating to be supplied by user depending on use conditions

Modified position

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.
SECTION 2 been added: Does not contain any PBT or vPvB substances.
SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.
SECTION 9 been added: Solid
SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.
SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.

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