



DX-Cartridge Clean-Tec

Safety Data Sheet

according to GB/T 16483 and GB/T 17519

Version 5.0

Revision date: 2025/07/22

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Supersedes: 2021/11/04

SECTION 1 Chemical product and company identification

Product identifier

Product form	Article
Trade name	DX-Cartridge Clean-Tec
Product code	BU Direct Fastening
Chemical Chinese name	-
Chemical English name	-
Recommended use of the chemical	CARTRIDGES FOR TOOLS, BLANK
Restricted use of the chemical	For professional use only

Details of the supplier of the safety data sheet

Supplier Hilti (China) Ltd. 8F, Tower 2, No.58 Yao Yuan Rd. Pudong District 200126 Shanghai - China T +86 21 6016 7316	Department issuing data specification sheet Hilti AG Feldkircherstraße 100 9494 Schaan - Liechtenstein T +423 234 2111 product.compliance-direct.fastening@hilti.com
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Emergency telephone number

Emergency number	Emergency CONTACT (24-Hour-Number) GBK GmbH Global Regulatory Compliance +49 (0)6132-84463
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Country	Organisation/Company	Address	Emergency number
China	中国境内化学事故应急咨询电话 / chemical accident emergency consultation service hotline (24/7)		+86 532 83889090

SECTION 2 Hazards identification

Emergency overview

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Strong acids. Strong bases. Fire or projection hazard. Treat symptomatically

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GHS hazard classification

Physical hazards Explosives, Division 1.4
Other hazards not mentioned above are Not applicable or No data is available.

Label elements

Hazard pictograms (GHS CN)



Signal word (GHS CN) Warning.
Hazard statements (GHS CN) H204 - Fire or projection hazard.

Precautionary statements (GHS CN)

Prevention measures P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P250 - Do not subject to shock, friction, grinding.
P280 - Wear eye protection.
Incident response P372 - Explosion risk in case of fire.
P370+P380+P375 - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Safe storage P401 - Store in accordance with local regulations on explosives.

Physical and chemical hazards

Fire or projection hazard

Health hazards

Symptoms/effects Not expected to present a significant hazard under anticipated conditions of normal use

Environmental hazards

No additional information available

Other hazards

Restricted to professional users
Category of the pyrotechnic article: other pyrotechnic articles Cat. P1 (BAM EC-Type-Examination Certificate No. 0589.PYR.3800/12 or 0589.PYR.3804/12 respectively)
This article contains hazardous substances or preparations not intended to be released under normal or reasonably foreseeable conditions of use.
The dismantling of the article is prohibited!
Keep away from ignition sources (including static discharges)

SECTION 3 Composition/information on ingredients

Product form

Article.

Comments

max. net explosives weight each cartridge in mg:
Caliber 6.8/11 (cal .27 short) white: 130; brown: 140; green: 160; yellow: 180; red: 230; titanium: 230; black: 260
Caliber 6.8/18 (cal .27 long) green: 190; yellow: 220; blue: 300; red: 330; black: 410.

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Within the cartridges the explosive ingredients (gun powder and priming composition) are hermetically separated from the environment. They will be only opened with effort and under destruction of the article.

Propellant powder: glycerol trinitrate containing nitrocellulose powder

Mass per cartridge: essentially dependent on the required power (100-400 mg).

Exposed propellant powder outside a cartridge is harmful if swallowed and highly flammable; without tamping no explosion risk.

Packed safety cartridges don't represent a significant risk.

In case of reaction no dangerous fragments or projectiles will be formed.

Mechanical or thermal attempts to expose the primer composition lead to an immediate reaction of the dangerous ingredients.

Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.
cellulose nitrate	5 - 17	9004-70-0
glycerol trinitrate	2 - 7	55-63-0
Diphenylamine	0 - 1	122-39-4
copper	0 - 1	7440-50-8
zinc	0 - 1	7440-66-6
tetrazene	0 - 1	109-27-3

SECTION 4 First-aid measures

Description of necessary first-aid measures

First-aid measures general	In all cases of doubt, or when symptoms persist, seek medical attention
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse
First-aid measures after eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell

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Most important symptoms/effects

Symptoms/effects

Not expected to present a significant hazard under anticipated conditions of normal use

Advices for first aid responders

No additional information available

Notes for the doctor

Other medical advice or treatment

No additional information available

SECTION 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Dry powder
Water spray

Unsuitable extinguishing media

Do not use a heavy water stream

Specific hazards

Fire hazard

Explosion risk in case of fire.

Hazardous decomposition products in case of fire

Carbon monoxide
Carbon dioxide (CO₂)
Nitrous gasses

Explosion hazard

Explosion risk in case of fire.

Advice for firefighters and protective measures

Firefighting instructions

Use water spray or fog for cooling exposed containers
Exercise caution when fighting any chemical fire
Prevent fire fighting water from entering the environment

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures

Remove ignition sources
Use special care to avoid static electric charges
No open flames. No smoking

Personal Precautions,
Protective Equipment and
Emergency Procedures

No additional information available

For non-emergency personnel

Protective equipment

Wear recommended personal protective equipment

Emergency procedures

Evacuate unnecessary personnel

For emergency responders

Protective equipment

Equip cleanup crew with proper protection

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Emergency procedures

Ventilate area

Environmental precautions

Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

Methods and material for containment and cleaning up

Methods for cleaning

No additional information available

For containment

No additional information available

Prevention measures for secondary accidents

Prevention Measures for
Secondary Accidents

No additional information available

Other information

For further information refer to section 8: "Exposure
controls/personal protection"

For further information refer to section 13

SECTION 7 Handling and storage

Handling

Precautions for safe
handling

Do not subject to grinding, shock, friction
Take precautionary measures against static discharge.
Ensure good ventilation of the work station
Keep away from heat, hot surfaces, sparks, open flames
and other ignition sources. No smoking.
Wear personal protective equipment

Hygiene measures

Do not eat, drink or smoke when using this product.
Always wash hands after handling the product

Local and general
ventilation

No additional information available

Additional hazards when
processed

Hazardous waste due to potential risk of explosion

Storage

Storage conditions

Keep only in the original container in a cool, well
ventilated place away from : Direct sunlight, Heat
sources
Store in a dry place.

Technical measures

Ground/bond container and receiving equipment.

Material used in
packaging/containers

No additional information available

Incompatible products

Strong bases. Strong acids.

Storage temperature

5 - 25 ° C

Information on mixed storage

Keep away from :

Ignition sources

Do not store with:

Store according to local legislation

Storage area

Store away from heat

Packaging materials

Store always product in container of same material as
original container

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SECTION 8 Exposure controls / Personal protection equipment

Occupational exposure limits

glycerol trinitrate (55-63-0)

China - Occupational Exposure Limits

Local name	硝化甘油 # Nitroglycerine
OEL MAC	1 mg/m ³
Remark (CN)	皮
Regulatory reference	GBZ 2.1-2019

Diphenylamine (122-39-4)

China - Occupational Exposure Limits

Local name	二苯胺 # Diphenylamine
OEL PC-TWA	10 mg/m ³
Regulatory reference	GBZ 2.1-2019

copper (7440-50-8)

China - Occupational Exposure Limits

Local name	铜 (按 Cu 计) # Copper, as Cu
OEL PC-TWA	1 mg/m ³ 尘 # dust 0.2 mg/m ³ 烟 # fume
Regulatory reference	GBZ 2.1-2019

Biological limit values

No additional information available

Monitoring methods

No additional information available

Appropriate engineering controls

No additional information available

Personal protective equipment

Personal protective equipment	When using cartridge operated tools, sufficient ear protection must be worn.
Thermal hazard protection	No information available
Environmental exposure controls	Avoid release to the environment.
Other information	Do not eat, drink or smoke during use
Hand protection	Not required for normal conditions of use
Eye protection	Chemical goggles or safety glasses ISO 16321-1
Skin and body protection	When using cartridge operated tools, sufficient ear protection must be worn.
Respiratory protection	Respiratory protection not required in normal conditions
Personal protective equipment symbol(s)	

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SECTION 9 Physical and chemical properties

Physical state	Solid
Appearance	No data available
Colour	According to product specification
Odour	There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.
pH	No data available
Melting point	No data available
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20° C	No data available
Density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	Not applicable
Explosive limits (vol %)	Not applicable
Lower explosion limit	No data available
Upper explosion limit	No data available
Radioactive	No
Explosive properties	Fire or projection hazard.
Particle size	Not available

SECTION 10 Stability and reactivity

Chemical stability	Stable under normal conditions
Reactivity	Fire or projection hazard.
Possibility of hazardous reactions	Risk of explosion by shock, friction, fire or other sources of ignition Heating may cause an explosion. At high temperatures : > 150 ° C Response
Conditions to avoid	Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition
Incompatible materials	Strong acids Strong bases

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Hazardous decomposition products	Carbon monoxide Carbon dioxide Nitrogen oxides Metal oxides Thermal decomposition can lead to the release of irritating gases and vapours
Other properties	No additional information available

SECTION 11 Toxicological information

Acute toxicity

Acute toxicity (oral)	No data available (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	No data available (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	No data available (Based on available data, the classification criteria are not met)

glycerol trinitrate (55-63-0)

LD50 oral	685 mg/kg
LD50 dermal rat	> 9560 mg/kg bodyweight (OECD 402 method)
LD50 dermal	9560 mg/kg
ATE CN (oral)	5 mg/kg bodyweight
ATE CN (dermal)	5 mg/kg bodyweight
ATE CN (gases)	100 ppmv/4h
ATE CN (vapours)	0.5 mg/l/4h
ATE CN (dust, mist)	0.05 mg/l/4h

Diphenylamine (122-39-4)

LD50 oral rat	> 800 mg/kg bodyweight
LD50 oral	2480 mg/kg
LD50 dermal	5000 mg/kg
ATE CN (oral)	100 mg/kg bodyweight
ATE CN (dermal)	300 mg/kg bodyweight
ATE CN (gases)	700 ppmv/4h
ATE CN (vapours)	3 mg/l/4h
ATE CN (dust, mist)	0.5 mg/l/4h

zinc (7440-66-6)

LD50 oral rat	> 2000 mg/kg (OECD 401 method)
LD50 oral	2500 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	5.41 mg/l/4h
ATE CN (oral)	2500 mg/kg bodyweight
ATE CN (dust, mist)	5.41 mg/l/4h

Skin corrosion/irritation

Skin corrosion/irritation	No data available (Based on available data, the classification criteria are not met)
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Serious eye damage/eye irritation

Serious eye damage/irritation	No data available (Based on available data, the classification criteria are not met)
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Respiratory or skin sensitisation

Respiratory or skin sensitisation	No data available (Based on available data, the classification criteria are not met)
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Germ cell mutagenicity

Germ cell mutagenicity	No data available (Based on available data, the classification criteria are not met)
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Carcinogenicity

Carcinogenicity	No data available (Based on available data, the classification criteria are not met)
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Reproductive toxicity

Reproductive toxicity	No data available (Based on available data, the classification criteria are not met)
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STOT - single exposure

STOT - single exposure	No data available (Based on available data, the classification criteria are not met)
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STOT - repeated exposure

STOT - repeated exposure	No data available (Based on available data, the classification criteria are not met)
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glycerol trinitrate (55-63-0)

STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Diphenylamine (122-39-4)

STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard

Aspiration hazard	No data available (Based on available data, the classification criteria are not met)
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Viscosity, kinematic	Not applicable
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SECTION 12 Ecological information

Ecotoxicity

Ecology - general	No harmful effects are to be expected if used properly. The contained ingredients can be harmful, but they are hermetically enclosed in the article and can not be released. The dismantling of the article is prohibited.
Hazardous to the aquatic environment, short-term (acute)	Not classified (Based on available data, the classification criteria are not met).
Hazardous to the aquatic environment, long-term (chronic)	Not classified (Based on available data, the classification criteria are not met).

glycerol trinitrate (55-63-0)

LC50 - Fish [1]	1.9 - 3.58 mg/l (96 h; Oncorhynchus mykiss; ASTM Designation E 729-80)
EC50 - Crustacea [1]	17.83 mg/l (48 h; Ceriodaphnia dubia; ASTM Designation E 729-80)
EC50 96h - Algae [1]	1.15 mg/l (Raphidocelis subcapitata; EPA TSCA Experimental Method 797.1060)
NOEC chronic fish	0.03 mg/l
NOEC chronic crustacea	3.23 mg/l (7 d; Ceriodaphnia dubia)

Diphenylamine (122-39-4)

EC50 - Crustacea [1]	2 mg/l (48 h; Daphnia magna; (OECD 202 method))
EC50 72h - Algae [1]	2.17 mg/l (Raphidocelis subcapitata; (OECD 201 method))
NOEC chronic algae	0.0273 mg/l
Partition coefficient n-octanol/water (Log Kow)	3.82 (20, 2 ° C)

zinc (7440-66-6)

LC50 - Fish [1]	169 µg/l (96h; Oncorhynchus Mykiss)
EC50 - Crustacea [1]	< 0.1 µg/l (48h; Ceriodaphnia dubia)
ErC50 algae	0.15 mg/l
NOEC chronic fish	26 µg/L (30 d; Jordanella floridae)
NOEC chronic crustacea	48 µg/L (21d; Daphnia magna; (OECD 211 method))

tetrazene (109-27-3)

EC50 - Crustacea [1]	0.14 mg/l
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Persistence and degradability

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Persistence and degradability Not established

glycerol trinitrate (55-63-0)

Not rapidly degradable	Yes
Persistence and degradability	Inherently biodegradable
Biodegradation	92.2 % (84 h)

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Diphenylamine (122-39-4)	
Not rapidly degradable	Yes
Persistence and degradability	Not readily biodegraded
Biodegradation	26 % (28 d; (OECD 301D method))
copper (7440-50-8)	
Not rapidly degradable	Yes
zinc (7440-66-6)	
Not rapidly degradable	Yes
Persistence and degradability	Not applicable for inorganic products
tetrazene (109-27-3)	
Not rapidly degradable	Yes

Bioaccumulative potential

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Bioaccumulative potential Not established

glycerol trinitrate (55-63-0)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4)
Diphenylamine (122-39-4)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4)
Partition coefficient n-octanol/water (Log Kow)	See section 12.1 on ecotoxicology 3.82 (20,2 ° C)
zinc (7440-66-6)	
Bioaccumulative potential	Bioaccumulation unlikely

Mobility in soil

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Bioaccumulative potential Not established

glycerol trinitrate (55-63-0)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4)
Ecology - soil	Low potential for adsorption in soil.
Diphenylamine (122-39-4)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4)
Surface tension	72.3 mN/m (20 ° C; EU Method A.5)
Partition coefficient n-octanol/water (Log Kow)	See section 12.1 on ecotoxicology 3.82 (20,2 ° C)
zinc (7440-66-6)	
Bioaccumulative potential	Bioaccumulation unlikely

Other adverse effects

Classification procedure (Ozone)	No data available (Based on available data, the classification criteria are not met)
Other adverse effects	No additional information available
Other information	Avoid release to the environment.

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Results of PBT and vPvB assessment

PBT	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
vPvB	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 13 Disposal considerations

Waste treatment methods	Must follow special treatment according to local regulation.
Contaminated container and packaging	No additional information available
Additional information	Cartridge strips with unused cartridges: Hazardous waste due to risk of explosion. European waste catalogue: 16 04 01* - waste ammunition. If possible use up the cartridges or store them for your next project. If not possible to use up the cartridges - The strip is mixed municipal waste and the cartridge itself is "waste ammunition" and has to be disposed of by an authorized/certified company. If cartridges are used up: European waste catalogue: 20 03 01 - mixed municipal waste . The product (cartridges and strip) can be disposed of as household or factory waste, Do not re-use empty containers.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations Refer to manufacturer/supplier for information on recovery/recycling At high temperatures may form : Response
Ecological waste information	Avoid release to the environment.
Sewage disposal recommendations	Disposal must be done according to official regulations
Regional waste regulation	Disposal must be done according to official regulations

SECTION 14 Transport information

In accordance with JT/T 617 / IMDG / IATA

Overland transport (JT/T 617)	Transport by sea	Air transport
UN number		
0323	0323	0323
Proper shipping name		
CARTRIDGES, POWER DEVICE	CARTRIDGES, POWER DEVICE	Cartridges, power device
Transport document description		
UN 0323, CARTRIDGES, POWER DEVICE, Division 1.4S	UN 0323 CARTRIDGES, POWER DEVICE, 1.4S	UN 0323 Cartridges, power device, 1.4S

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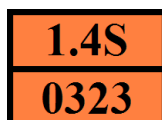
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Overland transport (JT/T 617)	Transport by sea	Air transport
Transport hazard class(es)		
1.4S	1.4S	1.4S
		
Packing group		
Not applicable	Not applicable	Not applicable
Environmental hazards		
Dangerous for the environment No	Dangerous for the environment No Marine pollutant No	Dangerous for the environment No
No supplementary information available		

Special transport precautions

MFAG-No	114
Overland transport (JT/T 617)	
Classification code (JT/T 617)	1.4S.
Special provisions (JT/T 617)	347.
Limited quantities (JT/T 617)	0.
Excepted quantities (JT/T 617)	E0.
Packing instructions (JT/T 617)	P134, LP102.
Mixed packing provisions (JT/T 617)	MP23.
Transport category (JT/T 617)	4.
Tunnel restriction code (JT/T 617)	E.
Special provisions for carriage - Loading, unloading and handling (JT/T 617)	CV1, CV2, CV3.
Special provisions for carriage - Operation (JT/T 617)	S1.
Hazard identification number (JT/T 617)	1.4S.
Orange-coloured plate (JT/T 617)	



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Transport by sea

Special provisions (IMDG)	347.
Limited quantities (IMDG)	0.
Excepted quantities (IMDG)	E0.
Packing instructions (IMDG)	P134, LP102.
EmS-No. (Fire)	F-B.
EmS-No. (Spillage)	S-X.
Stowage category (IMDG)	01.
Stowage and handling (IMDG)	SW1.
Properties and observations (IMDG)	See glossary of terms in appendix B.
MFAG-No	114

Air transport

PCA Excepted quantities (IATA)	E0.
PCA Limited quantities (IATA)	Forbidden.
PCA limited quantity max net quantity (IATA)	Forbidden.
PCA packing instructions (IATA)	134.
PCA max net quantity (IATA)	25kg.
CAO packing instructions (IATA)	134.
CAO max net quantity (IATA)	100kg.
Special provisions (IATA)	A165, A802.
ERG code (IATA)	3L.

SECTION 15 Regulatory information

Dangerous Goods List (GB 12268)	GB12268-2012.
Regulation on the Safety Management of Hazardous Chemicals	Catalogue of Hazardous Chemicals (2015).
Rules for dangerous goods transport by railway	List of dangerous goods by railway (2009).
Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used	List of Highly Toxic Chemicals (2002).
Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals	Not listed.
Regulation of the People's Republic of China on the Administration of the Import and Export of Goods	Not listed.
Regulation on the Control of Precursor Chemicals	Not listed.

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Measures for the Administration of Pharmaceutical Precursor Chemicals	Not listed.
Regulations on the Control of Agricultural Chemicals; Notice of Pesticide Transport	Not listed.
Regulation on the Management of Controlled Chemicals	Not listed.
New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)	
Inventory of Existing Chemical Substances in China (IECSC)	Contains listed substance(s) 1,2,3-Propanetriol, 1,2,3-trinitrate (CAS-No. 55-63-0) Diphenylamine (CAS-No. 122-39-4) Cellulose, nitrate (CAS-No. 9004-70-0) Copper (CAS-No. 7440-50-8) Zinc (CAS-No. 7440-66-6)
Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council)	
Catalogue of Hazardous Chemicals (2015)	Contains Hazardous Chemical(s) Nitroglycerin [desensitized with not less than 40% non-volatile water-insoluble phlegmatizer, by mass] (CAS-No. 55-63-0) Diphenylamine (CAS-No. 122-39-4) cellulose nitrate (CAS-No. 9004-70-0) copper zinc (CAS-No. 7440-66-6) Guanyl nitrosaminoguanyltetrazene, wetted with not less than 30% water, or mixture of alcohol and water, by mass (CAS-No. 109-27-3) Considered as Hazardous Chemical(s)
Identification of major hazard installations for dangerous chemicals (GB 18218)	Contains listed substance(s) Nitroglycerine (CAS-No. 55-63-0) cellulose nitrate (CAS-No. 9004-70-0)
Catalogue of Explosive Precursor Dangerous Chemicals	Contains listed substance(s) cellulose nitrate (CAS-No. 9004-70-0) zinc (CAS-No. 7440-66-6)
Law of the People's Republic of China on the Prevention and Control of Occupational Diseases	
Catalogue for Classification of Hazardous Factors of Occupational Diseases	Contains listed substance(s) Nitroglycerine (CAS-No. 55-63-0)
List of Highly Toxic Substances	Contains listed substance(s) Diphenylamine (CAS-No. 122-39-4)
Regulation on the Administration of Precursor Chemicals (Decree 445 of the State Council)	
Catalogue of Precursor Chemicals	
Other domestic regulatory lists	
Dangerous Goods List (GB 12268)	GB12268-2012
Inventory of Hazardous Chemicals under Key Supervision	Contains listed substance(s) Nitroglycerine (CAS-No. 55-63-0) Nitrocellulose (CAS-No. 9004-70-0)

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SECTION 16 Other information

Data sources

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Abbreviations and acronyms	
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
ED	Endocrine disruptor
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
N. O. S.	Not Otherwise Specified
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
VOC	Volatile Organic Compounds
WGK	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative
NOAEL	No-Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level

Other information

A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis



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Section	Changed item	Change	Comments
	General.	Modified.	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.