

Safety Data Sheet

according to GB/T 16483 and GB/T 17519

Version 5.0

### SECTION 1 Chemical product and company identification

### Product identifier

 $\begin{array}{cccc} {\tt Product\ form} & {\tt Article} \\ {\tt Name} & {\tt RWS\ 9x17\ W} \end{array}$ 

Product code BU Direct Fastening

Chemical Chinese name
Chemical English name

Recommended use of the For professional use only chemical CARTRIDGES, POWER DEVICE

### 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

### Emergency telephone number

Emergency number Emergency CONTACT (24-Hour-Number)

GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

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

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According to product specification. odourless. Keep only in the original container in a cool, well ventilated place away from: Direct sunlight. Heat. Store in a dry place. Extremely high or low temperatures. Strong acids. Strong bases. Fire or projection hazard. Treat symptomatically

### 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 grinding, shock, friction.

P280 - Wear eye protection.

Incident response P370+P380+P375 - In case of fire: Evacuate area. Fight

fire remotely due to the risk of explosion.

P372 - Explosion risk in case of fire.

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. Pl

(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.

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Comments max. net explosives weight each cartridge in mg:

Caliber 9x17; Yellow: 500; red: 605.

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 (500-610 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 - 12	9 0 0 4 - 7 0 - 0
glycerol trinitrate	1 - 4	5 5 - 6 3 - 0
lead styphnate	0.1 - 1	15245-44-0
Diphenylamine	0.1 - 1	1 2 2 - 3 9 - 4
Barium nitrate	0.1 - 1	10022-31-8

### SECTION 4 First-aid measures

### Description of necessary first-aid measures

In all cases of doubt, or when symptoms persist, seek First-aid measures general

medical attention

First-aid measures after Allow affected person to breathe fresh air.

inhalation Allow the victim to rest

First-aid measures after Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water skin contact

rinse

First-aid measures after eye Rinse immediately with plenty of water.

contact Obtain medical attention if pain, blinking or redness

persists

First-aid measures after Rinse mouth.

ingestion Do NOT induce vomiting.

Obtain emergency medical attention

### Most important symptoms/effects

Symptoms/effects Not expected to present a significant hazard under

anticipated conditions of normal use

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### 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

Dry powder Suitable extinguishing media

Water spray

Unsuitable extinguishing

Do not use a heavy water stream

media

### Specific hazards

Hazardous decomposition products in case of fire Carbon monoxide Carbon dioxide Nitrous gasses

### 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 No additional information available

### For non-emergency personnel

Emergency procedures

Emergency Procedures

Evacuate unnecessary personnel

### For emergency responders

Protective equipment

Equip cleanup crew with proper protection

### Environmental precautions

Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

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### Methods and material for containment and cleaning up

Methods for cleaning Pick up loose cartridges only by hand.

Exposed ingredients must be swept up carefully and phlegmatized in a water container, labelled according the regulations, wipe down with water the contamined

area.

Store away from other materials.

For containment No additional information available

### Prevention measures for secondary accidents

Prevention Measures for

 $S\,e\,c\,o\,n\,d\,a\,r\,y\quad A\,c\,c\,i\,d\,e\,n\,t\,s$ 

Other information

No additional information available

authorized site

For further information refer to section 8: "Exposure

controls/personal protection"

For further information refer to section 13

Dispose of materials or solid residues at an

### SECTION 7 Handling and storage

### Handling

Precautions for safe Do not subject to grinding, shock, friction

handling

Take precautionary measures against static discharge.

Wash hands and other exposed areas with mild soap and

water before eating, drinking or smoking and when

leaving work

Hygiene measures Do not eat, drink or smoke when using this product.

Always wash hands after handling the product

Local and general

ventilation

Additional hazards when

 $p\,r\,o\,c\,e\,s\,s\,e\,d$ 

 $No \quad additional \quad information \quad available$ 

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.

No additional information available

packaging/containers

Material used in

Incompatible products Strong bases. Strong acids.

Storage temperature 5 - 25 ° C

Information on mixed storage Keep away from :

Ignition sources

Store according to local legislation

Storage area Store away from heat

### SECTION 8 Exposure controls / Personal protection equipment

### Occupational exposure limits

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glycerol trinitrate (55-63-0)		
China - Occupational Exposure Limits		
Local name	硝化甘油 # Nitroglycerine	
OEL MAC	$1 \text{ mg/m}^3$	
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/m³	
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

Environmental exposure Avoid release to the environment.

 ${\tt controls}$ 

Other information Do not eat, drink or smoke during use

No additional information available

Hand protection Not required for normal conditions of use

Eye protection Safety glasses

Skin and body protection When using cartridge operated tools, sufficient ear

protection must be worn.

Respiratory protection Not required for normal conditions of use

Personal protective equipment symbol(s)





### SECTION 9 Physical and chemical properties

Physical state Solid

Appearance No data available

Colour According to product specification

**0 d o u r** 1 e s s

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Flash point Not applicable Auto-ignition temperature Not applicable Decomposition temperature No data available Flammability Non flammable. No data available Vapour pressure No data available Relative vapour density at 20° C Density No data available Solubility No data available Partition coefficient n-No data available octanol/water (Log Pow) Viscosity, kinematic Not applicable Explosive limits (vol %) Not applicable Lower explosion limit No data available Upper explosion limit No data available Radioactive Nο Explosive properties Fire or projection hazard. Particle size Not available

### SECTION 10 Stability and reactivity

Chemical stability Stable under normal conditions Reactivity No additional information available Possibility of hazardous Risk of explosion by shock, friction, fire or other reactions sources of ignition Heating may cause an explosion. At high temperatures :  $>150\,$  °C reaction Direct sunlight. Extremely high or low temperatures. Conditions to avoid Heat. Sparks. Open flame. Overheating Incompatible materials Strong acids Strong bases Hazardous decomposition Carbon monoxide products 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 (oral) Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (dermal) Acute toxicity (dermal) Acute toxicity (inhalation) No data available (Based on available data, the classification criteria are not met) No data available (Based on available data, the classification criteria are not met) glycerol trinitrate (55-63-0) LD50 oral 885 mg/kg

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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/1/4h	
ATE CN (dust, mist)	0.05 mg/1/4h	
lead styphnate (15245-44-0)		
LD50 oral rat	> 2000 mg/kg bodyweight	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)	
LC50 Inhalation - Rat	> 5.05 mg/1/4h (OECD 403 method)	
(Dust/Mist)		
ATE CN (oral)	500 mg/kg bodyweight	
ATE CN (dust, mist)	1.5 mg/1/4h	
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/1/4h	
ATE CN (dust, mist)	0.5 mg/1/4h	
Barium nitrate (10022-31-8)		
LD50 oral	355 mg/kg	
ATE CN (oral)	100 mg/kg bodyweight	
ATE CN (gases)	4500 ppmv/4h	
ATE CN (vapours)	11 mg/1/4h	
ATE CN (dust, mist)	1.5 mg/1/4h	
	ı	

### Skin corrosion/irritation

Skin corrosion/irritation

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

### Serious eye damage/eye irritation

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

### Respiratory or skin sensitisation

Respiratory or skin sensitisation

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

### 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)	
Reproductive toxicity		
Reproductive toxicity	No data available (Based on available data, the classification criteria are not met)	
STOT - single exposure		
STOT - single exposure	No data available (Based on available data, the classification criteria are not met)	
STOT - repeated exposure		
STOT - repeated exposure	No data available (Based on available data, the classification criteria are not met)	
glycerol trinitrate (55-63-0)		
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
lead styphnate (15245-44-0)		
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Diphenylamine (122-39-4)		
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.	

### Aspiration hazard

Aspiration hazard

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

Additional information

No additional information available

### RWS 9x17 W

Viscosity, kinematic Not applicable

# 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)	No data available (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	No data available (Based on available data, the classification criteria are not met)

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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/1	
NOEC chronic crustacea	3.23 mg/l (7 d; Ceriodaphnia dubia)	
lead styphnate (15245-44-0)		
LC50 - Fish [1]	0.107 mg/l (96 h; Oncorhynchus mykiss; Lead)	
EC50 - Crustacea [1]	7 mg/1	
NOEC chronic fish	0.0189 - 1.559 mg/l (Fish; Lead)	
NOEC chronic crustacea	0.0017 - 0.496 mg/l (aquatic invertebrates; Lead)	
BCF - Fish [1]	1.553	
Partition coefficient n-octanol/water (Log Kow)	-2.19 (20 °C)	
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/1	
Partition coefficient n-octanol/water (Log Kow)	3.82 (20,2 °C)	
Barium nitrate (10022-31-8)		
EC50 - Crustacea [1]	9018 mg/1	

### Persistence and degradability

### RWS 9x17 W

Persistence and degradability Not established

glycerol trinitrate (55-63-0)		
Not rapidly degradable	Yes	
Persistence and degradability	Inherently biodegradable	
Biodegradation	92.2 % (84 h)	
lead styphnate (15245-44-0)		
Not rapidly degradable	Yes	
Diphenylamine (122-39-4)		
Not rapidly degradable	Yes	
Persistence and degradability	Not readily biodegraded	
Biodegradation	26 % (28 d; (OECD 301D method))	
Barium nitrate (10022-31-8)		
Not rapidly degradable	Yes	

### Bioaccumulative potential

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Bioaccumulative potential Not established

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glycerol trinitrate (55-63-0)			
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4)		
lead styphnate (15245-44-0)			
BCF - Fish [1]	See section 12.1 on ecotoxicology1.553		
Partition coefficient n- octanol/water (Log Kow)	See section 12.1 on ecotoxicology-2.19 (20 °C)		
Diphenylamine (122-39-4)			
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4)		
Partition coefficient n- octanol/water (Log Kow)	See section 12.1 on ecotoxicology3.82 (20,2 °C)		

### Mobility in soil

### RWS 9x17 W

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.	
lead styphnate (15245-44-0)		
Partition coefficient n- octanol/water (Log Kow)	See section 12.1 on ecotoxicology-2.19 (20 °C)	
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 ecotoxicology3.82 (20,2 °C)	

### Other adverse effects

Waste treatment methods

Classification procedure
(Ozone)

No data available (Based on available data, the classification criteria are not met)
Other information

Avoid release to the environment.

### 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

Dispose of contents/container in accordance with

### SECTION 13 Disposal considerations

	licensed collector's sorting instructions.
Contaminated container and packaging	No additional information available
Additional information	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 cartridges are used up: European waste catalogue: 20 03 01 - mixed municipal waste. The product can be disposed of as household or factory waste.

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Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with

local/national regulations

Refer to manufacturer/supplier for information on

 $\verb"recovery/recycling"$ 

At high temperatures may form :

Response

Ecological waste information

Avoid release to the environment.

## SECTION 14 Transport information

In accordance with JT/T 617 / IMDG / IATA

Overland transport (JT/T 617)	Transport by sea	Air transport
UN number		
0 3 2 3	0 3 2 3	0 3 2 3
Proper shipping name		,
CARTRIDGES, POWER DEVICE	CARTRIDGES, POWER DEVICE	Cartridges, power device
Transport document description	o n	,
UN 0323, CARTRIDGES, POWER DEVICE, Division 1.48	UN 0323 CARTRIDGES, POWER DEVICE, 1.4S	UN 0323 Cartridges, power device, 1.4S
Transport hazard class(es)		,
1.4S	1.4S	1.4S
1.4	1.4	1.4
Packing group	I	
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	1

### 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	0.

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Excepted quantities (JT/T
                                    ΕΟ.
  617)
  Packing instructions (JT/T
                                   P134, LP102.
  617)
  Mixed packing provisions
                                    MP23.
   (JT/T 617)
  Transport category (JT/T
                                    4.
  617)
  Tunnel restriction code
                                    Ε.
  (JT/T 617)
  Special provisions for
                                    CV1, CV2, CV3.
   carriage - Loading,
  unloading and handling (JT/T
  617)
  Special provisions for
                                    S1.
  carriage – Operation (JT/T
  617)
  Hazard identification number
                                    1.4S.
   (JT/T 617)
  Orange-coloured plate (JT/T
                                       1.4S
  617)
                                      0323
Transport by sea
  Special provisions (IMDG)
                                    347.
  Limited quantities (IMDG)
                                    0.
  Excepted quantities (IMDG)
                                    P134, LP102.
  Packing instructions (IMDG)
  EmS-No. (Fire)
                                    F-B.
  EmS-No. (Spillage)
                                    S-X.
  Stowage category (IMDG)
                                    01.
  Stowage and handling (IMDG)
                                    SW1.
  Properties and observations
                                   See glossary of terms in appendix B.
   (IMDG)
  MFAG-No
                                    114
Air transport
  PCA \quad Excepted \quad quantities
                                    ΕΟ.
   (IATA)
  PCA Limited quantities
                                   Forbidden.
   (IATA)
  PCA limited quantity max net
                                   Forbidden.
  quantity (IATA)
  PCA packing instructions
                                    134.
   (IATA)
  PCA max net quantity (IATA)
                                    25 kg.
  CAO packing instructions
                                    134.
   (IATA)
  CAO max net quantity (IATA)
                                    100kg.
  Special provisions (IATA)
                                    A\,1\,6\,5 , A\,8\,0\,2 .
  ERG code (IATA)
                                    3 L .
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Chemicals under Key

Supervision

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SECTION 15 Regulatory information
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Dangerous Goods List (GB Contains listed substance(s). 12268) Catalogue of Hazardous Chemicals (2015). Regulation on the Safety Management of Hazardous Chemicals Rules for dangerous goods List of dangerous goods by railway (2009). transport by railway Regulations on Labor List of Highly Toxic Chemicals (2002). Protection in Workplaces Where Toxic Substances Are Used New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020) Inventory of Existing Chemical Contains listed substance(s) Substances in China (IECSC) 1, 2, 3-Propanetrio1, 1, 2, 3-trinitrate (CAS-No. 55-63-0) Diphenylamine (CAS-No. 122-39-4) Cellulose, nitrate (CAS-No. 9004-70-0) Barium nitrate (CAS-No. 10022-31-8) Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council) Catalogue of Hazardous Contains Hazardous Chemical(s) Chemicals (2015) Nitroglycerin [desensitized with not less than 40% non-volatile water-insoluble phlegmatizer, by mass] (CAS-No. 55-63-0) $1\,\texttt{ead}\ 2\,\texttt{,}\ 4\,\texttt{,}\ 6\,\texttt{-trinitro-m-phenylene}\ dioxide\,[\,with\ not\ less$ than 20% phlegmatizer] (CAS-No. 15245-44-0) Diphenylamine (CAS-No. 122-39-4) cellulose nitrate (CAS-No. 9004-70-0) Barium nitrate (CAS-No. 10022-31-8) Considered as Hazardous Chemical(s) Identification of major hazard Contains listed substance(s) installations for dangerous Nitroglycerine (CAS-No. 55-63-0) chemicals (GB 18218) cellulose nitrate (CAS-No. 9004-70-0) Law of the People's Republic of China on the Prevention and Control of Occupational Diseases Catalogue for Classification Contains listed substance(s) of Hazardous Factors of Nitroglycerine (CAS-No. 55-63-0) Occupational Diseases List of Highly Toxic Contains listed substance(s) Substances 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 Contains listed substance(s) 12268) NITROGLYCERIN SOLUTION IN ALCOHOL with not more than 1% nitroglycerin (CAS-No. 55-63-0) cellulose nitrate (CAS-No. 9004-70-0) BARIUM NITRATE (CAS-No. 10022-31-8) Inventory of Hazardous Contains listed substance(s)

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Nitroglycerine (CAS-No. 55-63-0)

Nitrocellulose (CAS-No. 9004-70-0)



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### SECTION 16 Other information

Data sources

European Chemicals Agency, http://echa.europa.eu/manufacturer

CAS-No.	Chemical Abstract Service number
A D N	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
A D R	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
D N E L	Derived-No Effect Level
E C 5 0	Median effective concentration
E D	Endocrine disruptor
E C - N o .	European Community number
E N	European Standard
I A T A	International Air Transport Association
I M D G	International Maritime Dangerous Goods
I O E L V	Indicative Occupational Exposure Limit Value
L C 5 0	Median lethal concentration
L D 5 0	Median lethal dose
NOEC	No-Observed Effect Concentration
O E C D	Organisation for Economic Co-operation and Development
N. O. S.	Not Otherwise Specified
O E L	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
R E A C H	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage o Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
V O C	Volatile Organic Compounds
W G K	Water Hazard Class
v P v B	Very Persistent and Very Bioaccumulative
N O A E L	No-Observed Adverse Effect Level
N O A E C	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
1.	Department issuing data specification sheet.	Modified.	
1.	Emergency number.	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.

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