

Safety Data Sheet

according to GB/T 16483 and GB/T 17519

Version: 4.0

Revision date: 2023/04/06

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Supersedes:

SECTION 1 Chemical product and company identification

Product identifier

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

Product code BU Direct Fastening

Chemical Chinese name Chemical English name

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 Entwicklungsgesellschaft mbH Hiltistrasse 6 86916 Kaufering - Deutschland T +49 8191 906310 - F +49 8191 90176310 df-hse@hilti.com

Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum

24h Service

+41 44 251 51 51 (international)

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

----- TO BE COMPLETED -----

GHS hazard classification

Physical hazards Explosives, Division 1.4

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Other hazards not mentioned above are Not applicable or No data is available.

Label elements

Hazard pictograms (GHS CN)



Signal word (GHS CN)

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

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 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

 $\begin{array}{lll} nitrocellulose & powder \\ Mass & per & cartridge: & essentially & dependent & on & the \\ \end{array}$

required power (500-610 mg).

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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.

	Concentration or concentration ranges (w/w %)	CAS No.
glycerol trinitrate	1 - 4	5 5 - 6 3 - 0
lead styphnate	0.1 - 1	15245-44-0
diphenylamine	0.1 - 1	122-39-4

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 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 skin contact area with mild soap and water, followed by warm water

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

Advices for first aid responders

No additional information available

Notes for the doctor

Other medical advice or No additional information available treatment

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SECTION 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media I

Dry powder 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

Emergency Procedures

No additional information available

For non-emergency personnel

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

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

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Prevention measures for secondary accidents

Prevention Measures for

Secondary Accidents

Other information

No additional information available

Dispose of materials or solid residues at an

authorized site

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 Do not subject to grinding, shock, friction

handling

Take precautionary measures against static discharge.

Wash hands and other exposed areas with mild soap and

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

No additional information available

Local and general

ventilation

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.

Material used in packaging/containers

packaging/containers

Incompatible products Strong bases. Strong acids.

Storage temperature

Information on mixed storage

Keep away from :

5 - 25 ° C

Ignition sources

Store according to local legislation

No additional information available

Storage area Store away from heat

SECTION 8 Exposure controls / Personal protection equipment

${\tt Occupational\ exposure\ limits}$

glycerol trinitrate (55-63-0)		
China - Occupational Exposure Limits		
Local name	硝化甘油 # Nitroglycerine	
OEL MAC	1 mg/m³	
Remark (CN)	皮	
Regulatory reference	GBZ 2.1-2019	

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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

Personal protective When using cartridge operated tools, sufficient ear

equipment protection must be worn.

Environmental exposure Avoid release to the environment.

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

Odour

PH

No data available

Melting point

No data available

Metrezing 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

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Explosive properties

Relative vapour density at No data available 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 No data available Upper explosion limit Radioactive Nο

SECTION 10 Stability and reactivity

Chemical stability Stable under normal conditions Reactivity No additional information available Risk of explosion by shock, friction, fire or other Possibility of hazardous reactions sources of ignition Heating may cause an explosion. At high temperatures : >150 °C reaction Conditions to avoid Direct sunlight. Extremely high or low temperatures. 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

Fire or projection hazard.

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/1/4h	

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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 (Dust/Mist)	> 5.05 mg/1/4h (OECD 403 method)
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

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)

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)

glycerol trinitrate (55-63-0)	
STOT-single exposure	Causes damage to organs.

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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	Causes 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

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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)

(chronic)	
glycerol trinitrate (55-63-0)	
LC50 - Fish [1]	1.9 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/l
NOEC chronic fish	0.0189 - 1.559 mg/l (Fish; Lead)

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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)

Persistence and degradability

RWS 9x17 W

Persistence and degradability Not established

glycerol trinitrate (55-63-0)		
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	Y e s	
Persistence and degradability	Not readily biodegraded	
Biodegradation	26 % (28 d; (OECD 301D method))	

Bioaccumulative potential

RWS 9x17 W

Bioaccumulative potential Not established

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.

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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

Classification procedure

(0 z o n e)

No data available

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

SECTION 13 Disposal considerations

Waste treatment methods Dispose of contents/container in accordance with

licensed collector's sorting instructions.

Contaminated container and

packaging

No additional information available

Additional information

Product/Packaging disposal

recommendations

No additional information available

Dispose in a safe manner in accordance with

 $1 \circ c \cdot a \cdot 1 / n \cdot a \cdot t \cdot i \circ n \cdot a \cdot 1 \quad r \cdot e \cdot g \cdot u \cdot 1 \cdot a \cdot t \cdot i \cdot o \cdot n \cdot s$

 $Refer\ to\ manufacturer/supplier\ for\ information\ on$

recovery/recycling

At high temperatures may form :

Response

Ecology - waste materials Avoid release to the environment.

SECTION 14 Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID	
14.1. UN number or ID number				
UN 0323	UN 0323 UN 0323 UN 0323 UN 0323			
14.2. UN proper shipping name				
CARTRIDGES, POWER DEVICE	CARTRIDGES, POWER DEVICE	Cartridges, power device	CARTRIDGES, POWER DEVICE	

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ADR	IMDG	IATA	RID	
Transport document description				
UN 0323 CARTRIDGES, POWER DEVICE, 1.4S, (E)	UN 0323 CARTRIDGES, POWER DEVICE, 1.4S	UN 0323 Cartridges, power device, 1.4S	UN 0323 CARTRIDGES, POWER DEVICE, 1.4S	
14.3. Transport hazar	d class(es)			
1.4S	1.4S	1.4S	1.45	
1.4	1.4	1.4	1.4	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental ha	azards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No	
No supplementary info	cmation available			

14.6. Special precautions for user

Overland transport

Classification code (ADR)	1.4S
Special provisions (ADR)	3 4 7
Limited quantities (ADR)	0
Excepted quantities (ADR)	E 0
Packing instructions (ADR)	P134, LP102
Mixed packing provisions (ADR)	MP23
Transport category (ADR)	4
Special provisions for	CV1, CV2, CV3
carriage - Loading, unloading	
and handling (ADR)	
Special provisions for	S 1
carriage - Operation (ADR)	
Tunnel restriction code (ADR)	Е

Transport by sea

Special provisions (IMDG)	3 4 7
Limited quantities (IMDG)	0
Excepted quantities (IMDG)	E 0
Packing instructions (IMDG)	P134, LP102
EmS-No. (Fire)	F − B
EmS-No. (Spillage)	S - X
Stowage category (IMDG)	0 1
Stowage and handling (IMDG)	S W 1

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Properties and observations (IMDG)	See glossary of terms in appendix B.
MFAG-No	114
Air transport	
PCA Excepted quantities (IATA)	E 0
PCA Limited quantities (IATA)	Forbidden
PCA limited quantity max net quantity (IATA)	Forbidden
PCA packing instructions (IATA)	1 3 4
PCA max net quantity (IATA)	2 5 k g
CAO packing instructions (IATA)	1 3 4
CAO max net quantity (IATA)	1 0 0 k g
Special provisions (IATA)	A165, A802
ERG code (IATA)	3 L
Rail transport	
Classification code (RID)	1.4S
Special provisions (RID)	3 4 7
Limited quantities (RID)	0
Excepted quantities (RID)	E 0
Packing instructions (RID)	P134, LP102
Mixed packing provisions (RID)	M P 2 3
Transport category (RID)	4
Special provisions for carriage – Packages (RID)	W 2
Special provisions for carriage - Loading, unloading and handling (RID)	CW1
Colis express (express parcels) (RID)	C E 1
Hazard identification number (RID)	1.4S

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15 Regulatory information

Dangerous Goods List (GB 12268-2012)	Contains listed substance(s).
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).

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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-Propanetriol, 1, 2, 3-trinitrate (CAS-No. 55-63-0)

Diphenylamine (CAS-No. 122-39-4)

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)

lead 2, 4, 6-trinitro-m-phenylene dioxide[with not less

than 20% phlegmatizer] (CAS-No. 15245-44-0)

Diphenylamine (CAS-No. 122-39-4) 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)

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

Substances

List of Highly Toxic

Contains listed substance(s)

Contains listed substance(s)

Diphenylamine (CAS-No. 122-39-4)

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

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

12268-2012)

Contains listed substance(s)

NITROGLYCERIN SOLUTION IN ALCOHOL with not more than

1% nitroglycerin (CAS-No. 55-63-0)

Inventory of Hazardous Chemicals under Key

Supervision

Contains listed substance(s) Nitroglycerine (CAS-No. 55-63-0)

SECTION 16 Other information

Data sources

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

manufacturer

Abbreviations and acronyms	
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
DNEL	Derived-No Effect Level

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E C 5 0	Median effective concentration
E D	Endocrine disrupting properties
E C - N o .	European Community number
E N	European Standard
IATA	International Air Transport Association
I M D G	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
L C 5 0	Median lethal concentration
L D 5 0	Median lethal dose
N O E C	No-Observed Effect Concentration
O E C D	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
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

Section	Changed item	Change	Comments
	General.	Modified.	
11.	Toxicological information.	Modified.	
12.	Ecotoxicological information.	Modified.	
15.	Regulatory information.	Added.	

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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