

Product Safety Information Sheet

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis Issue date: 12/14/2022 Revision date: 12/14/2022 Supersedes version of: 3/3/2014 Version: 4.0

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

1.1. Product identifier

Product form Article
Name RWS 9x17 W
Product code BU Direct Fastening

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec For professional use only
Use of the substance/mixture CARTRIDGES, POWER DEVICE

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of product safety information sheet

Supplier Department issuing data specification sheet

Hilti France S.A.S. Hilti Entwicklungsgesellschaft mbH

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<u>fr-contactez-nous@hilti.com</u> <u>df-hse@hilti.com</u>

1.4. Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Explosives, Division 1.4 H204

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

GHS01 Warning

Signal word (CLP)

Hazard statements (CLP) H204 - Fire or projection hazard.

Precautionary statements (CLP) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P250 - Do not subject to grinding, shock, friction.

P280 - Wear eye protection.

P370+P380+P375 - In case of fire: Evacuate area. Fight fire remotely due to the risk of

explosion.



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P372 - Explosion risk.

P401 - Store in accordance with local regulations on explosives.

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).

2.3. Other hazards

Extra phrases

Other hazards which do not result in classification

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).

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
glycerol trinitrate (55-63-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
lead styphnate (15245-44-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
diphenylamine (122-39-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Component	
glycerol trinitrate(55-63-0)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
lead styphnate(15245-44-0)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
diphenylamine(122-39-4)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable



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3.2. Mixtures

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.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
glycerol trinitrate substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 55-63-0 EC-No.: 200-240-8 EC Index-No.: 603-034-00-X REACH-no: 01-2119488893- 18	1 – 4	Unst. Expl., H200 Acute Tox. 2 (Oral), H300 (ATE=5 mg/kg bodyweight) Acute Tox. 1 (Dermal), H310 (ATE=5 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) STOT RE 2, H373 Aquatic Chronic 2, H411
lead styphnate substance listed as REACH Candidate	CAS-No.: 15245-44-0 EC-No.: 239-290-0 EC Index-No.: 609-019-00-4 REACH-no: 01-2119543737-	0.1 – 1	Unst. Expl., H200 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Repr. 1A, H360Df STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
diphenylamine substance with national workplace exposure limit(s) (FR)	CAS-No.: 122-39-4 EC-No.: 204-539-4 EC Index-No.: 612-026-00-5 REACH-no: 01-2119488966- 13	0.1 – 1	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h) Eye Irrit. 2, H319 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general First-aid measures after inhalation

In all cases of doubt, or when symptoms persist, seek medical attention. Allow affected person to breathe fresh air. Allow the victim to rest.



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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.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

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

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Dry powder. Water spray.
Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

6.1. 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.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up 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.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed Hazardous waste due to potential risk of explosion.



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

7.2. Conditions for safe storage, including any incompatibilities

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.

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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

glycerol trinitrate (55-63-0)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Glycerol trinitrate		
IOEL TWA	0.095 mg/m³		
IOEL TWA [ppm]	0.01 ppm		
IOEL STEL	0.19 mg/m³		
IOEL STEL [ppm]	0.02 ppm		
Remark	Skin		
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164		
France - Occupational Exposure Limits			
Local name	Nitroglycérine (8)		
VME (OEL TWA)	1 mg/m³		
VME (OEL TWA) [ppm]	0.1 ppm		
VLE (OEL C/STEL)	0.19 mg/m³		
VLE (OEL C/STEL) [ppm]	0.02 ppm		
Remark	Valeurs règlementaires indicatives; possibilité d'une pénétration cutanée importante		
Regulatory reference	Circulaire du Ministère du travail (réf.: Arrête du 27 septembre 2019)		
diphenylamine (122-39-4)			
France - Occupational Exposure Limits			
Local name	Diphénylamine		
VME (OEL TWA)	10 mg/m³		
Remark	Valeurs recommandées/admises		
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)		



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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

When using cartridge operated tools, sufficient ear protection must be worn.

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

When using cartridge operated tools, sufficient ear protection must be worn.

Hand protection:

Not required for normal conditions of use

8.2.2.3. Respiratory protection

Respiratory protection:

Respiratory protection not required in normal conditions

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid

Colour According to product specification.

Odour Not available
Odour threshold Not available
Melting point Not available
Freezing point Not available



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Boiling point Not available Flammability Not available

Explosive properties Fire or projection hazard.

Lower explosion limit Not applicable Not applicable Upper explosion limit Flash point Not applicable Auto-ignition temperature Not applicable Decomposition temperature Not available Not available рΗ pH solution Not available Viscosity, kinematic Not applicable Solubility Not available Partition coefficient n-octanol/water (Log Kow) Not available Not available Vapour pressure Vapour pressure at 50°C Not available Density Not available Relative density Not available Relative vapour density at 20°C Not applicable Particle size Not available Particle size distribution Not available Not available Particle shape Not available Particle aspect ratio Not available Particle aggregation state Not available Particle agglomeration state Particle specific surface area Not available

9.2. Other information

Particle dustiness

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Additional information Not specifically applicable. Article

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. 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 reaction.

Not available

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Metal oxides. Thermal decomposition can lead to the release of irritating gases and vapours.



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	as defined in Regulation (EC) No 1272/2008	
Acute toxicity (oral)	Not classified (Based on available data, the classification criteria are not met)	
Acute toxicity (dermal)	Not classified (Based on available data, the classification criteria are not met)	
Acute toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met)	
glycerol trinitrate (55-63-0)		
LD50 oral	1055 mg/kg bodyweight (mouse)	
LD50 dermal rat	> 9560 mg/kg bodyweight (OECD 402 method)	
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/l/4h (OECD 403 method)	
diphenylamine (122-39-4)		
LD50 oral rat	> 800 mg/kg bodyweight	
Skin corrosion/irritation	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Serious eye damage/irritation	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Respiratory or skin sensitisation	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Carcinogenicity	Not classified	
Additional information	Based on available data, the classification criteria are not met	
Reproductive toxicity	Not classified	
Additional information	Based on available data, the classification criteria are not met	
STOT-single exposure	Not classified	
Additional information	Based on available data, the classification criteria are not met	
STOT-repeated exposure	Not classified	
Additional information	Based on available data, the classification criteria are not met	
glycerol trinitrate (55-63-0)		
STOT-repeated exposure	May cause damage to organs (circulatory system) through prolonged or repeated exposure.	

diphenylamine (122-39-4) STOT-repeated exposure

STOT-repeated exposure

STOT-repeated exposure May cause damage to organs (Hematological system, kidneys, spleen, liver) through prolonged or repeated exposure (oral).

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not classified

Additional information Based on available data, the classification criteria are not met

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

No additional information available

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11.2.2. Other information

Potential adverse human health effects and symptoms

No additional information available, 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.

SECTION 12: Ecological information

12.1		

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

Not classified (Based on available data, the classification criteria are not met)

(acute)

Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term

(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/l (60 d; Oncorhynchus mykiss)
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]	7.02 mg/l (48 h; Daphnia magna; (OECD 202 method); Lead)
NOEC chronic fish	0.0189 – 1.559 mg/l (Fish; Lead)
NOEC chronic crustacea	0.0017 – 0.496 mg/l (aquatic invertebrates; Lead)
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))

12.2. Persistence and degradability

NOEC chronic algae

RWS 9x17 W			
Persistence and degradability Not established.			
glycerol trinitrate (55-63-0)			
Persistence and degradability	Inherently biodegradable.		
Biodegradation 92.2 % (84 h)			
diphenylamine (122-39-4)			
Persistence and degradability	Not readily biodegraded.		
Biodegradation	26 % (28 d; (OECD 301D method))		

0.37 mg/l (Raphidocelis subcapitata; (OECD 201 method))



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12.3. 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]	1.553		
Partition coefficient n-octanol/water (Log Kow)	-2.19 (20 °C)		
diphenylamine (122-39-4)			
Partition coefficient n-octanol/water (Log Kow)	3.82 (20,2 °C)		
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).		

12.4. Mobility in soil

glycerol trinitrate (55-63-0)		
Ecology - soil Low potential for adsorption in soil.		
diphenylamine (122-39-4)		

12.5. Results of PBT and vPvB assessment

RWS 9x17 W

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

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

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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.

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 $\dot{}$

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.

Ecology - waste materials

European List of Waste (LoW) code

HP Code

Avoid release to the environment. 16 04 01* - waste ammunition

HP1 - "Explosive:" waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is

included.



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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		
14.2. UN proper shipping name					
CARTRIDGES, POWER DEVICE	CARTRIDGES, POWER DEVICE	Cartridges, power device	CARTRIDGES, POWER DEVICE		
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 hazard class(es)					
1.4S	1.4S	1.4S	1.4S		
1.4	1.4	1.4	1.4		
14.4. Packing group	14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards					
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No		
No supplementary information availa	able				

14.6. Special precautions for user

Overland transport

Classification code (ADR) 1.4S Special provisions (ADR) 347 Limited quantities (ADR) 0 Excepted quantities (ADR) E0 P134, LP102 Packing instructions (ADR) Mixed packing provisions (ADR) MP23 Transport category (ADR) CV1, CV2, CV3

Special provisions for carriage - Loading, unloading

and handling (ADR)

Special provisions for carriage - Operation (ADR) S1 Tunnel restriction code (ADR) Е

Transport by sea

Special provisions (IMDG) 347 Limited quantities (IMDG) Excepted quantities (IMDG) E0 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 (IMDG) See glossary of terms in appendix B.

MFAG-No



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Air transport

PCA Excepted quantities (IATA) FΩ Forbidden PCA Limited quantities (IATA) Forbidden PCA limited quantity max net quantity (IATA) 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)

Rail transport

1.4S Classification code (RID) Special provisions (RID) 347 Limited quantities (RID) Excepted quantities (RID) E0 Packing instructions (RID) P134, LP102 Mixed packing provisions (RID) MP23 Transport category (RID) Special provisions for carriage - Packages (RID) W2 Special provisions for carriage - Loading, unloading CW1 and handling (RID) CE1 Colis express (express parcels) (RID) Hazard identification number (RID) 1.4S

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not applicable.

REACH Annex XIV (Authorisation List)

Not applicable.

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations above or equal to 0.1 %: Lead styphnate (EC 239-290-0, CAS 15245-44-0)

PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): lead 2,4,6-trinitro-m-phenylene dioxide (15245-44-0), Diphenylamine (122-39-4)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)



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Seveso Directive (Disaster Risk Reduction)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P1b EXPLOSIVES Explosives, Division 1.4	50	200

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 1	Conditions caused by lead and its compounds
RG 72	Diseases resulting from exposure to nitrates of glycols and glycerol

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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Indication of changes				
Section	Changed item	Change	Comments	
	General	Modified	SDS EU format according to COMMISSION REGULATION (EU) 2020/878	
2.2	Labelling according to Regulation (EC) No. 1272/2008 [CLP]	Modified		
11	Toxicological information	Modified		
12.1	Ecotoxicological information	Modified		
15	Regulatory information	Added		

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	



Product Safety Information Sheet

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Abbreviations and acronyms:		
EC50	Median effective concentration	
ED	Endocrine disrupting properties	
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	

Data sources

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

Full text of H- and EUH-statements:		
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	



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Full text of H- and EUH-statements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Carc. 2	Carcinogenicity, Category 2	
Expl. 1.4	Explosives, Division 1.4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H200	Unstable explosives.	
H204	Fire or projection hazard.	
H300	Fatal if swallowed.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H310	Fatal in contact with skin.	
H311	Toxic in contact with skin.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H351	Suspected of causing cancer.	
H360Df	May damage the unborn child. Suspected of damaging fertility.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
Repr. 1A	Reproductive toxicity, Category 1A	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
Unst. Expl.	Explosives, Unstable explosives	

SDS EU Hilti