

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.10.2022

Version number 1

Revision: 03.10.2022

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

- **Product identifier**
- **Trade name:** Reload Swiss RS 50
- **Article number:** PC 00254
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
Propellant powder for non-commercial loading of cartridges for hunting and sporting ammunition
- **Application of the substance / the mixture** Article for gun tubes
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Nitrochemie Wimmis AG
Niesenstrasse 44
CH-3752 Wimmis
- **Further information obtainable from:**
Dr. Dominic Kaase
Leiter Stabsstelle
Sicherheit und Umweltschutz
Nitrochemie Wimmis AG
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CH-3752 Wimmis

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URL: www.nitrochemie.com
- **Emergency telephone number:** During opening hours: +41/33 228 11 86

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS01 exploding bomb

Expl. 1.4 H204 Fire or projection hazard.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS01

- **Signal word** Warning

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.10.2022

Version number 1

Revision: 03.10.2022

Trade name: Reload Swiss RS 50

(Contd. of page 1)

· Hazard statements

H204 Fire or projection hazard.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking.

P234 Keep only in original packaging.

P240 Ground and bond container and receiving equipment.

P250 Do not subject to grinding/shock/friction.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+P372+P380+P373 In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.

P401 Store in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Information concerning particular hazards for human and environment:

Handling larger quantities than contained in the original packaging is associated with increased danger, up to and including a fire hazard and either a minor blast hazard or a minor projection hazard or both.

· Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· Mixtures
· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 9004-70-0	nitrocellulose ⚠ Expl. 1.1, H201, EUH001	94.0%
CAS: 76-22-2 EINECS: 200-945-0	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one ⚠ Flam. Sol. 2, H228; ⚠ STOT SE 2, H371; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	4.0%
CAS: 122-39-4 EINECS: 204-539-4	diphenylamine ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.7%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· Description of first aid measures
· General information: Take affected persons out of danger area and lay down.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact: Generally the product does not irritate the skin.

· After eye contact: Rinse opened eye for several minutes under running water.

· After swallowing: If symptoms persist consult doctor.

· Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

Safety data sheet
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Version number 1

Revision: 03.10.2022

Trade name: Reload Swiss RS 50

(Contd. of page 2)

- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

* **5 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
Water
Water spray
- **For safety reasons unsuitable extinguishing agents:**
Foam
Extinguishing powder
Carbon dioxide
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

* **6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures** Remove persons from danger area.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Prevent impact and friction.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** storage facility for explosives
- **Information about storage in one common storage facility:**
only storage facility for explosives
pay attention to the compatibility group

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.10.2022

Version number 1

Revision: 03.10.2022

Trade name: Reload Swiss RS 50

(Contd. of page 3)

- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.
- **Storage class: 1**
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one

OEL	Short-term value: 18 mg/m ³ , 3 ppm
	Long-term value: 12 mg/m ³ , 2 ppm

122-39-4 diphenylamine

OEL	Short-term value: 20 mg/m ³
	Long-term value: 10 mg/m ³

- **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

- **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Standards of Personal Protective Equipment

Respiratory protection: EN 136:1998; EN 137:2006; EN 138:1994; EN 140:1998

Eye protection: EN 166:2001

Body protection: EN ISO 13688:2013; EN ISO 17491-3:2008; EN ISO 17491-4:2008; EN 943-1:2015; EN 943-2:2002

Protection of hands: EN ISO 374-1:2016; EN ISO 374-2:2003; EN ISO 374-3:2003

Safety shoes: EN ISO 20345:2011

- **Respiratory protection:** Suitable respiratory protective device recommended.

· **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.10.2022

Version number 1

Revision: 03.10.2022

Trade name: Reload Swiss RS 50

(Contd. of page 4)

- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Goggles recommended during refilling
- **Body protection:**
Protective work clothing
Heat-resistant protective clothing
Antistatic protective gear
Nomex

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Solid
- **Colour:** Dark grey
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** Undetermined.
- **Flammability** Flammable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable.
- **Auto-ignition temperature:** 170 °C
- **Decomposition temperature:** Not determined.
- **pH** Not applicable.
- **Viscosity:**
- **Kinematic viscosity** Not applicable.
- **Dynamic:** Not applicable.
- **Solubility**
- **water:** Insoluble.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure:** Not applicable.
- **Density and/or relative density**
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Particle characteristics** See item 3.

· **Other information**

- **Appearance:**
- **Form:** Solid

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.10.2022

Version number 1

Revision: 03.10.2022

Trade name: Reload Swiss RS 50

(Contd. of page 5)

· Important information on protection of health and environment, and on safety.

- **Ignition temperature:** 170 °C
- **Explosive properties:** Risk of explosion by shock, friction, fire or other sources of ignition.
- **Solvent content:**
- **Solids content:** 100.0 %
- **Change in condition**
- **Evaporation rate** Not applicable.

· Information with regard to physical hazard classes

- **Explosives** Fire or projection hazard.
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
Danger of explosion.
Reacts with acids, alkalis and oxidising agents.
Reacts with reducing agents.
Develops toxic gases/fumes.
Flammable.
Risk of explosion by shock, friction, fire or other sources of ignition
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.10.2022

Version number 1

Revision: 03.10.2022

Trade name: Reload Swiss RS 50

Nitrogen oxides (NO_x)

(Contd. of page 6)

11 Toxicological information

- **Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	6,667 mg/kg
Dermal	LD50	42,857 mg/kg
Inhalative	LC50/4 h	24.6 mg/l

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

(Contd. on page 8)

Safety data sheet
 according to 1907/2006/EC, Article 31

Printing date 03.10.2022

Version number 1

Revision: 03.10.2022

Trade name: Reload Swiss RS 50

Harmful to aquatic organisms

(Contd. of page 7)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

HPI	Explosive
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HP14	Ecotoxic
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN number or ID number**
- **ADR, IMDG, IATA** UN0509

- **UN proper shipping name**
- **ADR** 0509 Powder, smokeless
- **IMDG, IATA** Powder, smokeless

- **Transport hazard class(es)**

- **ADR, IMDG, IATA**



- **Class** 1 Explosive substances and articles.
- **Label** 1.4

- **Packing group**
- **ADR, IMDG, IATA** not regulated

- **Environmental hazards:** Not applicable.

- **Special precautions for user** Warning: Explosive substances and articles.

- **Hazard identification number (Kemler code):** 1.4C

- **EMS Number:** F-B,S-Y

- **Maritime transport in bulk according to IMO instruments** Not applicable.

- **Transport/Additional information:**

- **ADR**
- **Transport category** 2
- **Tunnel restriction code** (E)

(Contd. on page 9)

Safety data sheet
 according to 1907/2006/EC, Article 31

Printing date 03.10.2022

Version number 1

Revision: 03.10.2022

Trade name: Reload Swiss RS 50

(Contd. of page 8)

· UN "Model Regulation":	UN 0509 POWDER, SMOKELESS, 1.4
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15 Regulatory information

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

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- Seveso category P1b EXPLOSIVES

- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

- Regulation (EU) No 649/2012

122-39-4 diphenylamine

Annex I Part 1

Annex I Part 2

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases

H201 Explosive; mass explosion hazard.

H228 Flammable solid.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H371 May cause damage to organs.

(Contd. on page 10)

Safety data sheet
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Trade name: Reload Swiss RS 50

(Contd. of page 9)

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.
EUH001 Explosive when dry.

· **Department issuing SDS:** department for health and security and environment

· **Contact:** -

· **Date of previous version:** 31.08.2022

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Expl. 1.1: Explosives – Division 1.1

Expl. 1.4: Explosives – Division 1.4

Flam. Sol. 2: Flammable solids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· *** Data compared to the previous version altered.**