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

Printing date 03.10.2022

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Version number 1

Revision: 03.10.2022

Product identifi	er
Trade name: <u>R</u>	eload Swiss RS 80
Sector of Use Propellant powe	PC 00370 Fied uses of the substance or mixture and uses advised against ler for non-commercial loading of cartridges for hunting and sporting ammunition he substance / the mixture Article for gun tubes
Details of the su Manufacturer/S Nitrochemie Wi Niesenstrasse 4 CH-3752 Wimn	nmis AG 4
Further inform Dr. Dominic Ka Leiter Stabsstell Sicherheit und U Nitrochemie Wi Niesenstrasse 4 CH-3752 Wimm	e Jmweltschutz nmis AG 4
(0) 33 228 11 86 0) 33 228 13 30
Fax:+41 (0E-Mail:dominURL:www.t	
Fax:+41 (0E-Mail:dominURL:www.t)) 33 228 13 30 ic.kaase@nitrochemie.com nitrochemie.com phone number: During opening hours: +41/33 228 11 86
Fax: +41 (6 E-Mail: domin URL: www.i Emergency tele Hazards iden Classification of Classification of)) 33 228 13 30 ic.kaase@nitrochemie.com nitrochemie.com phone number: During opening hours: +41/33 228 11 86 tification f the substance or mixture ccording to Regulation (EC) No 1272/2008
Fax: +41 (6 E-Mail: domin URL: www.i Emergency tele Hazards iden Classification of Classification of)) 33 228 13 30 ic.kaase@nitrochemie.com nitrochemie.com phone number: During opening hours: +41/33 228 11 86 tification f the substance or mixture
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Fax: +41 ((E-Mail: domin URL: www.i Emergency tele Hazards iden Classification of Classification a GHS0 Expl. 1.4)) 33 228 13 30 ic.kaase@nitrochemie.com nitrochemie.com phone number: During opening hours: +41/33 228 11 86 tification f the substance or mixture ccording to Regulation (EC) No 1272/2008
Fax: +41 ((E-Mail: domin URL: www.i Emergency tele Hazards iden Classification of Classification a GHS0 Expl. 1.4	 <i>33</i> 228 13 30 <i>ic.kaase@nitrochemie.com</i> <i>nitrochemie.com</i> <i>phone number:</i> During opening hours: +41/33 228 11 86 <i>tification</i> <i>f the substance or mixture</i> <i>ccording to Regulation (EC) No 1272/2008</i> <i>Ol exploding bomb</i> <i>H204 Fire or projection hazard.</i>
Fax: +41 (6 E-Mail: domin URL: www.i Emergency tele Hazards iden Classification of Classification of Classification of Classification of Expl. 1.4	 <i>33</i> 228 13 30 <i>ic.kaase@nitrochemie.com</i> <i>phone number:</i> During opening hours: +41/33 228 11 86 <i>tification</i> <i>f the substance or mixture</i> <i>ccording to Regulation (EC) No 1272/2008</i> <i>Ol exploding bomb</i> <i>H204 Fire or projection hazard.</i> <i>b skull and crossbones</i>
Fax: +41 ((E-Mail: domin URL: www.i Emergency tele Hazards iden Classification of Classification of Classification of Expl. 1.4 Expl. 1.4 Acute Tox. 2 Acute Tox. 1	 <i>33</i> 228 13 30 <i>ic.kaase@nitrochemie.com</i> <i>itrochemie.com</i> <i>phone number:</i> During opening hours: +41/33 228 11 86 <i>tification</i> <i>f the substance or mixture</i> <i>ccording to Regulation (EC) No 1272/2008</i> <i>Pl exploding bomb</i> <i>H204 Fire or projection hazard.</i> <i>Skull and crossbones</i> <i>H300 Fatal if swallowed.</i>



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$\langle ! \rangle$	GHS07
Acute Tox.	4 H332 Harmful if inhaled.
Aquatic Ch	aronic 3 H412 Harmful to aquatic life with long lasting effects.
Label elem	lents
	according to Regulation (EC) No 1272/2008
	ct is classified and labelled according to the CLP regulation.
Hazard pic	
~	
14:	
GHS01	GHS06 GHS08
a. 1	
Signal wor	'd Danger
Hazard-de	termining components of labelling:
glycerol tri	
Hazard sta	tements
H204	Fire or projection hazard.
H300+H3	10 Fatal if swallowed or in contact with skin.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
	nary 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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P3/0+P3/	2+P380+P373 In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches
P401	explosives. Store in accordance with local/regional/national/international regulations
P401 P501	Store in accordance with local/regional/national/international regulations.
1 301	Dispose of contents/container in accordance with local/regional/national international regulations.
Informatio	on concerning particular hazards for human and environment:
	arger quantities than contained in the original packaging is associated with increased danger, up
Handling	arger quantities than contained in the original packaging is associated with increased danger, up
	uding a fire hazard and either a minor blast hazard or a minor projection hazard or both.

· **PBT:** Not applicable.

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· 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	85.0%
	🔗 Expl. 1.1, H201, EUH001	
CAS: 55-63-0	glycerol trinitrate	≥10–<13%
EINECS: 200-240-8	 ♦ Unst. Expl., H200; ♦ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ♦ STOT RE 2, H373; ♦ Aquatic Chronic 2, H411; Flam. Liq. 2, H225 	
• 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:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

- · After swallowing: Do not induce vomiting; call for medical help immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.

• *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

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- \cdot Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- **Protective equipment:** Mouth respiratory protective device. Wear self-contained respiratory protective device.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. 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. Ensure adequate ventilation.
- **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 Thorough dedusting.
 Ensure good ventilation/exhaustion at the workplace.
 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.
 Keep respiratory protective device available.
 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
- 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.



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8 Exposure controls/personal protection

•	Control	parameters
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· Ingredients with limit values that require monitoring at the workplace:

55-63-0 glycerol trinitrate

OEL Short-term value: 0.19 mg/m³, 0.02 ppm Long-term value: 0.095 mg/m³, 0.01 ppm Sk, IOELV

· 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
- \cdot General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. Standarts 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 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.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· 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: $\geq 0.11 \text{ mm}$

· 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.

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· Eye/face protection

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Tightly sealed goggles

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 prop	erties
· 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
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Important information on protection of heal	(Contd. of page
environment, and on safety.	
Ignition temperature:	170 °C
Explosive properties:	Risk of explosion by shock, friction, fire or other source of ignition.
Solvent content:	
Solids content:	100.0 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard of	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 flamm	able
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
- \cdot Conditions to avoid No further relevant information available.
- $\cdot \textit{Incompatible materials:} No further relevant information available.$
- *Hazardous decomposition products: Carbon monoxide and carbon dioxide*

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Nitrogen oxides (NOx)

11 Toxicological information

· Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity

Fatal if swallowed or in contact with skin. Harmful if inhaled.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

•		,
Oral	LD50	38.5–71.4 mg/kg
Dermal	LD50	38.5–71.4 mg/kg
Inhalative	LC50/4 h	3.85–7.14 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 May cause damage to organs through prolonged or repeated exposure.

· 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.

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Harmful to aquatic organisms

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

HP1 Explosive

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP6 Acute Toxicity

HP14 Ecotoxic

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· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

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 Label	<i>1 Explosive substances and articles. 1.4</i>	
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):		
EMS Number:	F-B,S-Y	
Manifina a familia and in hall a constitute for IMO		
Maritime transport in bulk according to IMO		



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· Transport/Additional information:	
$\cdot ADR$	
· Transport category	2
• Tunnel restriction code	(E)
· UN ''Model Regulation'':	UN 0509 POWDER, SMOKELESS, 1.4

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
- H1 ACUTE TOXIC
- P1b EXPLOSIVES
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 20 t

· 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.

 \cdot Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 \cdot 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

- H200 Unstable explosives.
- H201 Explosive; mass explosion hazard.
- H225 Highly flammable liquid and vapour.
- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.

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(Contd. of page 10) H330 Fatal if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H411 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 Unst. Expl.: Explosives – Unstable explosive Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 1: Acute toxicity - Category 1 Acute Tox. 4: Acute toxicity - Category 4 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 \cdot * Data compared to the previous version altered.