

Page 1 of 7

Revision: February 2016 Original: December 2011

Section 1 - Trade Name and Supplier

Product name: 16mm x 45 Signal Cartridge Single Star White for NICOSIGNAL

Drawing no. 002506

Manufacturer Rheinmetall Waffe Munition GmbH

Branch Nico Trittau Bei der Feuerwerkerei 4

22946 Trittau Germany

Phone number: +49 4154 805 - 0

(only during office time 7:00 – 15:30 CET/CEST)

Fax number: +49 4154 805 - 111 E-mail: info@rheinmetall.com

Written by: Development Department

Section 2 - Hazard Identification

Label elements according to Regulation (EC) No. 1272/2008 (CLP)

Pictogram



Signal word WARNING

Hazard statement H204 Fire or projection hazard.

Precautionary statements P210 Keep away from heat/sparks/open flames/hot

surfaces. - No smoking.

P234 Keep only in original container.
P372 Explosion risk in case of fire.
P370+P380 In case of fire: Evacuate area.

Other Hazards

Physical hazards Flames, heat and shock can ignite the article.

Article contains explosives.

Article contains strong oxidizer. Ingredients burn without air oxygen. Burning explosives will produce high heat and toxic fumes. Hazard

of burnings.

Ingestion Contents of open articles are toxic if swallowed.

Inhalation Combustions products of compositions could be toxic.

Skin contact Skin contact with contents of open articles could cause skin

irritations.

Eye contact Contents of open article cause eye irritation.



Page 2 of 7

Revision: February 2016 Original: December 2011

Section 3 - Information on Ingredients

Cartridge weight approx. 15.5 g

The compositions contain the hazardous materials listed below.

No.	Material	H-Phrases	Pictograms, Signal Word	Percentage of item weight
1	Sinoxid™ (lead styphnate * based mixture) CAS# 15245-44-0	H200, H302, H332, H360Df, H373, H400, H410	DANGER	0.2 – 0.6
2	Black powder	H201	DANGER	2.5 – 3.5
3	Barium nitrate CAS# 10022-31-8	H272, H302, H332	DANGER !	22.0 – 27.0
4	Aluminium powder CAS# 7429-90-5	H250, H260	DANGER	0.5 – 1.0
7	Magnesium powder CAS# 7439-95-4	H228, H261	DANGER	8.0 – 12.0
8	Strontium oxalate CAS# 814-95-9	H302, H312	WARNING	1.1 – 1.6

^{*} Substance is listed on candidate list of SVHC in accordance with Article 59 of the REACH Regulation

Information to comply with Article 33 (1) REACH Regulation: The following substances meeting the criteria in Article 57 and identified in accordance with Article 59 (1) are contained in the product in a concentration above 0.1% weight by weight (measured in reference to the component articles in accordance with ECJ Court ruling C-106/14, issued 10 September 2015): **lead styphnate.**



Page 3 of 7

Revision: February 2016 Original: December 2011

Section 4 - First Aid Measures

First aid measures apply to compositions and combustion products. It does not apply to the entire article.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing. Immediately call a poison centre or physician.

IF ON SKIN: Gently wash with plenty of soap and water. Remove all

contaminated clothing. Immediately call a poison centre or

physician.

IF IN EYE: Rinse cautiously with plenty of water for a minimum of 15 minutes.

Remove contact lenses, if present and easy to do. Immediately call

a poison centre or physician.

IF SWALLOWED: Do not induce vomiting. Rinse mouth. Immediately call a poison

centre or physician.

IN CASE OF BURNINGS: Immediately cool affected skin for as long as possible with cold

water. DO NOT remove clothing adhering to skin. Immediately call a

physician.

Section 5 – Fire Fighting Measures

Safety clearance Public: 100 m

Emergency response personnel: 25 m In case of explosions: immediately retreat

Suitable extinguishing

methods

Wet articles with water jet and prevent fire from spreading. Work from protected position to reduce risk to personnel.

Use unmanned monitors or lances.

Protective equipment Self-contained breathing apparatus.

Additional information Thermally exposed articles may auto-ignite.

DO NOT FIGHT FIRE when fire reaches articles.

Only fight fire in neighbourhood of articles.

Explosive substances and articles which present a slight risk of explosion (Division 1.4)

ERI-Card No. 1-04

Section 6 - Accidental Release Measures

Accidental release measures apply to articles or its ingredients of cartridges.

Remove all ignition sources. No smoking. DO NOT touch the article or escaped components/substances.

Recovery procedures and final disposal procedures shall be conducted only by specialists.



Page 4 of 7

Revision: February 2016 Original: December 2011

Section 7 - Handling and Storage

Observe all national laws and regulations.

Fire and explosive Prevention Protect from flames, heat, sparks and electrostatic charges.

Handle ammunition boxes with care. Don't drag, drop or knock.

Storage Store in tightly closed original packaging.

Protect from heat and all ignition sources.

Use only storage facilities specially approved for ammunitions.

Storage conditions: cool and dry

Hazard class for storage: 1.4 G if stored in UN-approved packaging

for shipping

Handling Use only outdoors or in well-ventilated rooms. Avoid breathing

fumes. In case of malfunctions observe special instructions.

Section 8 - Exposure Control, Personal Protection

clear of personnel.

Personal protection Approved single hearing protection is required for all personnel

within the noise hazard contour of a 40 m radius of the article. Eye

protection and protective clothing are required.

In case of broken article avoid skin contact or inhalation of inner

components.

Section 9 - Physical and Chemical Properties

Appearance	solid object
Odour	odourless
Minimal temperature of ignition	not available
Maximal burning temperature	not available for this article
Vapour density (Air = 1)	not applicable for this article
Density	not applicable for this article
Sound intensity	not available
Light intensity	not available for this article
Physical state	solid
Solubility	not available
рН	not available for compositions



Page 5 of 7

Revision: February 2016 Original: December 2011

Section 10 - Stability and Reactivity

conditions.

Hazardous reactions Article may be ignited by heat, impact and friction.

Section 11 - Toxicological Information

No toxicological hazards due to the entire article are known at this time.

Combustion products contain toxic components.

Fired article, residue of combustion or rests resulting of reactions not intended, may contain toxic substances. Appropriated protection equipment is required (e.g. gloves) during handling of used articles or components.

Section 12 - Ecological Information

Issues such as eco-toxicity, persistence and bioaccumulation are not applicable for articles.

Section 13 - Disposal Considerations

Dispose of according to all applicable federal, state and local regulations. Only qualified personnel shall conduct disposal procedures. Observe special safety instructions.

European-Waste-Code (EWC): 16 04 01* (waste ammunition) and 16 04 03* (other waste explosives)

Section 14 – Transport Information

Proper Shipping Name Cartridges, signal

DG Hazard Group 1.4 G UN Number 0312

ADR/ RID/ GGVSEB Chapter 3.2, dangerous goods list

IMDG Code (GGVSee) Part 3, dangerous goods list

IATA Part 4, Chapter 4.2, List of Dangerous Goods

Classified by BAM

^{*} The waste classified under this EWC number is considered to be hazardous!



Page 6 of 7

Revision: February 2016 Original: December 2011

Section 15 – Regulatory Information

European-Waste-Code (EWC): 16 04 01* (waste ammunition) and 16 04 03* (other waste explosives)

* The waste classified under this EWC number is considered to be hazardous!

Section 16 - Other Information

As a courtesy to our customers, Rheinmetall Waffe Munition GmbH has prepared copyrighted "Article Safety Datasheets" to provide information on the different products we manufacture and sell. According to Article 31 of Regulation (EC) No 1907/2006 (REACH), the supplier of a substance or a mixture shall provide the recipient with a safety data sheet compiled in accordance with Annex II. However, the supplied product meets the criteria to be classified as an article according to the definitions set out in Article 3 REACH regulation. The present Article Safety Data Sheet was therefore compiled by Rheinmetall Waffe Munition GmbH on a voluntary basis and to our best knowledge and ability. There is no guarantee either for the effectiveness of the precautions mentioned in the text or for completeness of presented information, whether explicit or implicit.

Should technical data be mentioned in the text, they reflect the current state of our knowledge, but no warranty or assurance is given with respect to product features, technical data or specifications.

There may be inherent hazards beyond the information presented in this document due to ageing or extreme storage conditions of the product in the past. Consequently, this information may not be sufficient or appropriate in all cases, and Rheinmetall Waffe Munition GmbH and the authors are not liable for the results of any misinterpretation or misuse of this information by any persons. It is self-evident, that the recipients of our products are responsible for their compliance with all national laws and regulations in their country.

Fire fighting and emergency measures are taken from Emergency Response Intervention Cards (ERICards). http://www.ericards.net

List of H- and P-phrases as cited in Sections 2 and 3

Hazard statements	H200	Unstable Explosives.
	H201	Explosive; mass explosion hazard.
	H204	Fire or projection hazard.
	H228	Flammable solid.
	H261	In contact with water releases flammable gases.
	H272	May intensify fire; oxidiser.
	H302	Harmful if swallowed.
	H312	Harmful in contact with skin.
	H332	Harmful if inhaled.
	H360Df	May damage the unborn child. Assumedly may influence 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.



Page 7 of 7

Revision: February 2016 Original: December 2011

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P234 Keep only in original container.

P372 Explosion risk in case of fire.

P370+P380 In case of fire: Evacuate area.

Abbreviations:

AGW: Arbeitsplatzgrenzwert (occupational exposure limit value)

ADR: Accord européen relative au transport international des marchandises dangereuses par route

BAM: Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing)

CAS: Chemical abstracts service

CLP: Classification, Labelling and Packaging of Chemicals (EU Regulation 1272/2008)

GGVSEB: Gefahrgutverordnung Straße, Eisenbahn und Binnenschifffahrt

GGVSee: Gefahrgutverordnung See

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods

RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses

SVHC: Substances of Very High Concern

UN: United Nations