

CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

Product name: Silver Targets Issue date: 11-08-2018

> Version #: 01 SDS No: G09

SECTION 1 Chemical product and company identification

银色目标 Chinese name of chemical English name of chemical Silver Targets

Manufacturer/Supplier Materion Advanced Materials Germany GmbH

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Alzenau, 63755

Germany

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SECTION 2 Hazards identification

Emergency overview The material as sold in solid form is generally not considered hazardous. However, if the process

involves grinding, melting, cutting or any other process that causes a release of dust or fumes,

hazardous levels of airborne particulate could be generated.

Hazard categories

Not classified.

Label elements

Pictograms None. Signal word None.

Hazard statement The material as sold in solid form is generally not considered hazardous. However, if the process

involves grinding, melting, cutting or any other process that causes a release of dust or fumes,

hazardous levels of airborne particulate could be generated.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Wash hands after handling. Response

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Physical and chemical hazards The product is stable and non-reactive under normal conditions of use, storage and transport. No

unusual fire or explosion hazards noted.

Health hazards Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.

Environmental hazards The product is not expected to be hazardous to the environment.

Supplemental information For further information, please contact the Product Stewardship Department at +1.216.383.4019.

SECTION 3 Composition/information on ingredients

Substance/mixture Substance

Chemical name	Concentration (%)	CAS Number
Silver Targets	100	7440-22-4

SDS CHINA 2515 1/5

SDS No: G09 Product name: Silver Targets

SECTION 4 First aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion Most important symptoms and

health effects

Direct contact with eyes may cause temporary irritation.

Personal protection for first-aid

responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Notes to physician Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Extinguishing media to avoid Do not use water as an extinguisher.

Specific hazards This product is not flammable.

Use water spray to cool unopened containers. Special fire fighting procedures

Protection of fire-fighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards No unusual fire or explosion hazards noted.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away.

For emergency responders Keep unnecessary personnel away.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

Clean-up methods and materials

and containment measures

Stop the flow of material, if this is without risk.

Prevention of secondary

Not available.

hazards

SECTION 7 Handling and storage

Handling Observe good industrial hygiene practices.

Not available. Storage

SECTION 8 Exposure controls/personal protection

Exposure limits

No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Monitoring methods Follow standard monitoring procedures.

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates **Engineering measures**

> should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Hand protection

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Wear gloves to prevent metal cuts and skin abrasions during handling.

Eye protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking.

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SECTION 9 Physical and chemical properties

Appearance

Physical state Solid.

Form Various shapes.

Color Silver.
Odor None.

Odor threshold Not applicable. pH Not applicable.

Melting point/freezing point 1760.9 °F (960.5 °C) / Not applicable.

Boiling point, initial boiling point,

and boiling range

Not applicable.

Flash point

Flammability limit - lower (%)

Flammability limit - upper (%)

Explosive limit - lower (%)

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

temperature

Explosive limit - upper (%) Not applicable.

Explosive limit - upper (%) Not applicable.

temperature

Vapor pressureNot applicable.Vapor densityNot applicable.Relative densityNot applicable.

Density 10.49 g/cm3 estimated at 15 °C

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient (n-octanol/water) Not applicable.

Auto-ignition temperature Not applicable.

Decomposition temperature Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) None known.

Other data

Explosive limit

Explosive properties

Not applicable.

Not applicable.

Not applicable.

Molecular formula Ag

Molecular weight107.86 g/molOxidizing propertiesNot oxidizing.ViscosityNot applicable.

SECTION 10 Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Stability Material is stable under normal conditions.

Possibility of hazardous

No dangerous reaction known under conditions of normal use.

reactions

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong acids. May react with strong bases or oxidizing agents.

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Hazardous decomposition

products

No hazardous decomposition products are known.

SECTION 11 Toxicological information

Acute toxicityNone known.Routes of exposureNot available.SymptomsNone known.

Skin corrosion/irritation Not relevant, due to the form of the product.

Serious eye damage/eye Not likely, due to the form of the product.

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irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitizer Not a skin sensitizer.

Germ cell mutagenicity Not classified.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Toxic to reproduction

Specific target organ toxicity
following single exposure

Not classified. Not classified.

Specific target organ toxicity following repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effectsNot available.Other informationNone known.

SECTION 12 Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulation No data available.

Mobility in soil No data available.

Other hazardous effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 Disposal considerations

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Local disposal regulations Dispose of waste material according to Local, State, Federal, and Provincial Environmental

Regulations.

SECTION 14 Transport information

CNDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

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SECTION 15 Regulatory information

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Not regulated.

Regulations on the Control over Safety of Dangerous Chemicals

Not regulated.

Provision on the Environmental Administration of New Chemical Substances

China Inventory of Existing Chemical Substances

Country(s) or region Inventory name On inventory (yes/no)*

China Inventory of Existing Chemical Substances in China

Yes

(IECSC)

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

SECTION 16 Other information

References

Not available.

Disclaimer

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