



Product name: Zinc Aluminum Targets

Revision number: 01
Date of SDS: 04-August-2021

Sheet number: G01

SDS TURKEY
1 / 7

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

1.1. Substance/Mixture identifier

Trade name or designation of the mixture Zinc Aluminum Targets

Other means of identification

SDS number G01

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

Identified uses Industrial uses: Uses of substances as such or in preparations at industrial sites
Manufacture of basic metals, including alloys
Manufacture of computer, electronic and optical products, electrical equipment
General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
Scientific research and development
Other: Manufacture of medical and defense equipment

Uses advised against Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Materion Advanced Materials
Address 6070 Parkland Boulevard
Mayfield Heights, OH 44124
United States

Division

Telephone 1.216.383.4019

e-mail ehs@materion.com

Contact person Theodore Knudson

1.4. Emergency telephone number See Section 16.

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 26/12/2008-27092 as amended

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

Hazard summary The products are classified as articles and, as such, do not present a physical or health hazard in the present form. If the products are processed or handled in ways that generate particles (dust, fume, particles or powder) and/or chemical compounds, a potential health hazard could exist and risk management measures must be taken to minimize risk.

2.2. Label elements

Labeling in accordance with Regulation 28848 regarding the Classification, Packaging and Labeling of Substances and Preparations 11/12/2013

Contains: Aluminium

Hazard pictograms None.

Signal word None.

Hazard statements 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 statements

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

SAFETY DATA SHEET

Product name: Zinc Aluminum Targets

Revision number: 01
Date of SDS: 04-August-2021

Sheet number: G01

SDS TURKEY
2 / 7

Disposal	Dispose of waste and residues in accordance with local authority requirements.
2.3. Other hazards	None known.
Supplemental information	For further information, please contact the Product Stewardship Department at +1.216.383.4019.

3. Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	Notes
Zinc	95 - 100	7440-66-6 231-175-3	
	Classification: SAE:	F;R15-R17	
	SEA:	Water-React. 3;H261	
Aluminium	0 - 5	7429-90-5 231-072-3	
	Classification: SAE:	F;R11-R15-R17	
	SEA:	-	

4. First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation develops and persists.
Ingestion	Drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed
Not applicable.

4.3. Indication of any immediate medical attention and special treatment needed
This product is not expected to produce adverse effects under normal conditions of use and appropriate personal hygiene.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Powder. Dry sand.
Unsuitable extinguishing media	Water. Carbon dioxide (CO ₂).

5.2. Special hazards arising from the substance or mixture
This product is not flammable.

5.3. Advice for firefighters

Special protective equipment for firefighters	Wear suitable protective equipment.
Special firefighting procedures	Move containers from fire area if you can do so without risk.

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

General fire hazards
No unusual fire or explosion hazards noted.

SAFETY DATA SHEET

Product name: Zinc Aluminum Targets

Revision number: 01
Date of SDS: 04-August-2021

Sheet number: G01

SDS TURKEY
3 / 7

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel In solid form this material poses no special clean-up problems. For personal protection, see section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up Clean up in accordance with all applicable regulations. Pick up and arrange disposal without creating dust.

6.4. Reference to other sections Not available.

7. Handling and storage

7.1. Precautions for safe handling Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities Store in a dry place.

7.3. Specific end use(s) Not available.

8. Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

US. ACGIH Threshold Limit Values Components

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m ³	Respirable fraction.

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

Recommended monitoring procedures Follow standard monitoring procedures.

8.2. Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates 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.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required.

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

- **Hand protection** Wear protective gloves.

- **Other** Wear suitable protective equipment.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards None known.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls Inform appropriate managerial or supervisory personnel of all environmental releases.

SAFETY DATA SHEET

Product name: Zinc Aluminum Targets

Revision number: 01
Date of SDS: 04-August-2021

Sheet number: G01

SDS TURKEY
4 / 7

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Solid.
Form	Solid.
Colour	Grey.

Odour None.

Odour threshold Not applicable.

pH Not applicable.

Melting point/freezing point 381 - 420 °C (717,8 - 788 °F)

Initial boiling point and boiling range 907 °C (1664,6 °F) estimated

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not applicable.

Flammability limit - lower (%) temperature Not applicable.

Flammability limit - upper (%) Not applicable.

Flammability limit - upper (%) temperature Not applicable.

Explosive limit - lower (%) Not applicable.

Explosive limit - lower (%) temperature Not applicable.

Explosive limit - upper (%) Not applicable.

Explosive limit - upper (%) temperature Not applicable.

Vapour pressure 124,46 hPa Not applicable.

Vapour density Not applicable.

Relative density Not applicable.

Solubility(ies)

Solubility (water) Insoluble.

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

Auto-ignition temperature Not applicable.

Decomposition temperature Not applicable.

Viscosity Not applicable.

Explosive properties Not explosive.

Oxidising properties Not oxidising.

9.2. Other information

Density 6,60 - 7,20 g/cm³

Miscible (water) Insoluble.

SAFETY DATA SHEET

Product name: Zinc Aluminum Targets

Revision number: 01
Date of SDS: 04-August-2021

Sheet number: G01

SDS TURKEY
5 / 7

Specific gravity 6,92 Not applicable.

10. Stability and reactivity

- 10.1. Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.
- 10.2. Chemical stability** Material is stable under normal conditions.
- 10.3. Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.
- 10.4. Conditions to avoid** Contact with incompatible materials.
- 10.5. Incompatible materials** Strong oxidising agents.
- 10.6. Hazardous decomposition products** No hazardous decomposition products are known.

11. Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

- Inhalation** Not likely, due to the form of the product.
- Skin contact** Not relevant, due to the form of the product.
- Eye contact** Not relevant, due to the form of the product.
- Ingestion** Not relevant, due to the form of the product.

Symptoms None known.

11.1. Information on toxicological effects

- Acute toxicity** None known.
- Skin corrosion/irritation** Not relevant, due to the form of the product.
- Serious eye damage/eye irritation** Not likely, due to the form of the product.
- Respiratory or skin sensitisation**
- Respiratory sensitisation** Not a respiratory sensitizer.
- Skin sensitisation** This product is not expected to cause skin sensitisation.
- Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- Carcinogenicity** Not classifiable as to carcinogenicity to humans.
- Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.
- Specific target organ toxicity - single exposure** Not classified.
- Specific target organ toxicity - repeated exposure** Not classified.
- Aspiration hazard** Not an aspiration hazard.
- Mixture versus substance information** No information available.
- Other information** Not available.

12. Ecological information

12.1. Toxicity

Product	Species	Test Results
Zinc Aluminum Targets		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Daphnia
		1,4 mg/l, 48 hours estimated

SAFETY DATA SHEET

Product name: Zinc Aluminum Targets

Revision number: 01
Date of SDS: 04-August-2021

Sheet number: G01

SDS TURKEY
6 / 7

Product	Species	Test Results
Fish	LC50	Fish
		0,2587 mg/l, 96 hours estimated
Components	Species	Test Results
Zinc (CAS 7440-66-6)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Bony fish superclass (Osteichthyes)
		0,52 - 3,59 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability

12.3. Bioaccumulative potential No data available.

Partition coefficient n-octanol/water (log Kow) Not available.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

13. Disposal information

13.1. Waste treatment methods

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.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

14. Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SAFETY DATA SHEET

Product name: Zinc Aluminum Targets

Revision number: 01
Date of SDS: 04-August-2021

Sheet number: G01

SDS TURKEY
7 / 7

15. Regulatory information

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

Prohibited Chemicals at Work. Regulation on Protection of Health and Safety Measures from Risks related to Chemical Agents at Work, Annex III

Not listed.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto Protocol

Not applicable.

Basel Convention

Zinc (CAS 7440-66-6)

16. Other information

Further information

Transportation Emergency
Call Chemtrec at:
International: 703.741.5970
Spain: 900.868.538
Switzerland: 0800.564.402

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculator methods and test data, if available.

Revision information

None.

Training information

Follow training instructions when handling this material.

Compiler of the Safety Data Sheet

Not available.

Competency certificate number

Not available.

Competency certificate date

Not available.

Disclaimer

This document has been prepared using data from sources considered to be technically reliable and the information is believed to be correct. Materion makes no warranties, expressed or implied, as to the accuracy of the information contained herein. Materion cannot anticipate all conditions under which this information and its products may be used and the actual conditions of use are beyond its control. The user is responsible to evaluate all available information when using this product for any particular use and to comply with all Federal, State, Provincial and Local laws, statutes and regulations.