MATERION

PRODUCT INFORMATION SHEET

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

1.1. Product identifier

Name of the substance **Aluminum Targets**

Identification number 013-002-00-1 (Index number)

Registration number **Document number** G12 **Synonyms** None.

Issue date 23-July-2021

Version number

1.3. Details of the supplier of the product information sheet

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

United States

Division

1.216.383.4019 **Telephone**

e-mail ehs@materion.com **Contact person** Theodore Knudson 1.4. Emergency telephone See Section 16.

number

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

Identified uses Manufacture of computer, electronic and optical products, electrical equipment

Scientific research and development

Other: Manufacture of medical and defense equipment

Uses advised against Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Supplier

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

United States

Division

Telephone 1.216.383.4019

ehs@materion.com e-mail **Contact person** Theodore Knudson 1.4. Emergency telephone See Section 16.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Hazard summary The products are classified as articles and, as such, do not present a physical or health hazard ir

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

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Aluminum Targets

Hazard pictograms None.

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Material name: Aluminum Targets

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

Obtain special instructions before use. P201

Do not handle until all safety precautions have been read and understood. P202

Do not breathe dust/fume/gas/mist/vapours/spray. P260

Wash thoroughly after handling. P264

Do not eat, drink or smoke when using this product. P270

Contaminated work clothing should not be allowed out of the workplace. P272

Avoid release to the environment. P273

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

Response

P302 + P350 If on skin: Wash with plenty of water.

If exposed or concerned: Get medical advice/attention. P308 + P313 If skin irritation or rash occurs: Get medical advice/attention. P333 + P313

Wash contaminated clothing before reuse. P363

Storage

Store locked up. P405

Disposal

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

Supplemental label

information

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Aluminum Targets	100	7429-90-5 231-072-3	-	013-002-00-1	
Classification: -					Т

SECTION 4: First aid measures

General information If exposed or concerned: get medical attention/advice. If you feel unwell, seek medical advice

(show the label where possible). Ensure that medical personnel are aware of the material(s)

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

involved, and take precautions to protect themselves.

4.1. Description of 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.

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

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important Under normal conditions of intended use, this material does not pose a risk to health.

symptoms and effects, both

acute and delayed

4.3. Indication of any

immediate medical attention and special treatment

needed

Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing Powder. Dry sand.

media

Unsuitable extinguishing Water. Carbon dioxide (CO2).

media

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5.2. Special hazards arising from the substance or

mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear suitable protective equipment.

Special firefighting

procedures

No unusual fire or explosion hazards noted.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

As supplied, this product poses no special release issues.

For emergency responders

As supplied, this product poses no special release issues. Keep unnecessary personnel away.

6.2. Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid

discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Collect spillage. Prevent product from entering drains. Prevent entry into waterways, sewer,

basements or confined areas.

6.4. Reference to other

sections

For personal protection, see section 8 of the PIS. For waste disposal, see section 13 of the PIS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash hands thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Sweden. OELs. Work Env Material	ironment Authority (AV), Occupatio Type	nal Exposure Limit Values Value	(AFS 2015:7) Form		
Aluminum Targets (CAS 7429-90-5)	TWA	5 mg/m3	Total dust.		
		2 mg/m3	Respirable dust.		
ological limit values	No biological exposure limits noted for the ingredient(s).				
ecommended monitoring	Follow standard monitoring procedures.				

Recommended monitoring procedures

Derived no effect levels

Predicted no effect concentrations (PNECs)

Not available.

Not available.

8.2. Exposure controls

Appropriate engineering

controls

(DNELs)

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 Personal protection equipment should be chosen according to the CEN standards and in discussion

with the supplier of the personal protective equipment.

Wear approved safety glasses, goggles, face shield and/or welder's helmet when risk of eye injury Eye/face protection

is present, particularly during operations that generate dust, mist or fume.

Skin protection

- Hand protection Wear gloves to prevent metal cuts and skin abrasions during handling.

- Other Wear suitable protective equipment.

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Respiratory protection In case of inadequate ventilation, use respiratory protection.

Thermal hazards Not applicable.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid. **Form** Solid. Colour Silver Odour None.

Odour threshold Not applicable. Not applicable. Hα Melting point/freezing point 660 °C (1220 °F) Initial boiling point and Not applicable.

boiling range

Flash point Not applicable. **Evaporation rate** Not applicable. Flammability (solid, gas) None known.

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. Not applicable.

Explosive limit - lower (

Explosive limit - lower (

%) temperature

Not applicable.

Explosive limit – upper

(%)

Not applicable.

Explosive limit - upper (

%) temperature

Not applicable.

Not applicable. Vapour pressure Vapour density Not applicable. Relative density Not applicable.

Solubility(ies)

Viscosity

Solubility (water) Insoluble

Partition coefficient (n-octanol/water)

Not applicable.

Not applicable.

Auto-ignition temperature Decomposition temperature

Not applicable. Not applicable. Not explosive. Not oxidising.

Oxidising properties 9.2. Other information

Explosive properties

Density 2,70 g/cm3 estimated

Heat of combustion

(NFPA 30B)

0 kJ/g

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26,98 a/mol Molecular weight

Specific gravity 2,7

SECTION 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 No dangerous reaction known under conditions of normal use.

reactions

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.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected.

Eye contact Not relevant, due to the form of the product.

Ingestion Not available. **Symptoms** None known.

11.1. Information on toxicological effects

Acute toxicity None known.

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

irritation

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 available.

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.

SECTION 12: Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the 12.1. Toxicity

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

Product Species Test Results

Aluminum Targets (CAS 7429-90-5)

Aquatic

Acute

Fish LC50 Rainbow trout, donaldson trout 0,16 mg/l, 96 hours

(Oncorhynchus mykiss)

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

12.2. Persistence and

No data is available on the degradability of this product.

degradability

12.3. Bioaccumulative No data available.

potential

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Partition coefficient

n-octanol/water (log Kow)

Not available.

Not available.

Bioconcentration factor (BCF) 12.4. Mobility in soil

No data available.

12.5. Results of PBT and

vPvB assessment

Not a PBT or vPvB substance or mixture.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation 12.6. Other adverse effects potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

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.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

TMDG

14.1. - 14.6.: Not regulated as dangerous goods.

SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Aluminum Targets (CAS 7429-90-5)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

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Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Aluminum Targets (CAS 7429-90-5)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Aluminum Targets (CAS 7429-90-5)

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Other regulations

Regulation) as amended.

National regulations Follow national regulation for work with chemical agents.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available. Not available. References Information on evaluation Not applicable.

method leading to the classification of mixture **Training information**

Follow training instructions when handling this material.

Further information Transportation Emergency

Call Chemtrec at:

International: 703.741.5970 Spain: 900.868.538 Switzerland: 0800.564.402

Chemtrec's toll free, mobile-enabled number in Germany – 0800 1817059

Disclaimer

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regulations.

To avoid any misunderstandings or incorrect assumptions by the receiver of the safety information, it should be made clear that the supplied information is not in the form of a Safety Data Sheet (SDS), but is actually a voluntary Product Information Sheet closely following the guidelines of the Safety Data Sheet - COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 (REACH/SDS).

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