MATERION

PRODUCT INFORMATION SHEET

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

1.1. Product identifier

Trade name or Zinc Aluminum Alloy

designation of the mixture **Registration number Document number** G01 **Synonyms** None.

Issue date 09-November-2018

Version number Λ1

1.3. Details of the supplier of the product information sheet

Supplier

Company name Materion Advanced Materials Germany GmbH

Address Borsigstrasse 10

63755 Alzenau

DF

Division

49.60.23.91.82.0 **Telephone**

e-mail Materion.Germanv@materion.com

Contact person Hermann Schmiing 1.4. Emergency telephone 49.60.23.91.82.0

number

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)

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Company name Materion Advanced Materials Germany GmbH

Address Borsigstrasse 10 63755 Alzenau

DF

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Telephone 49.60.23.91.82.0

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number

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

Material name: Zinc Aluminum Allov

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

Contains: Aluminium

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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.

Store away from incompatible materials. **Storage**

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

Supplemental label

information

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

Not a PBT or vPvB substance or mixture. 2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Zinc	95 - 100	7440-66-6 231-175-3	-	030-001-01-9	
Classification:	Water-React. 3;H261				T
Aluminium	0 - 5	7429-90-5 231-072-3	01-2119529243-45-0056	013-002-00-1	
Classification:	-				Т

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) 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 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.

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

5.2. Special hazards arising

This product is not flammable.

mixture

from the substance or

5.3. Advice for firefighters

Not available.

Special protective

equipment for firefighters

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.

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SECTION 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 PIS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the PIS.

6.2. Environmental

precautions

Avoid release to the environment.

6.3. Methods and material 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.

SECTION 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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

France. Threshold Limit Values (Components	Туре	Value	Form
Aluminium (CAS 7429-90-5)	VME	5 mg/m3	Dust.
Regulatory status: Indicative	limit (VL)		
		5 mg/m3	Welding fume.
Regulatory status: Indicative	limit (VL)		
		10 mg/m3	

Regulatory status: Indicative limit (VL)

Biological limit values

Recommended monitoring

procedures

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

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available

Predicted no effect concentrations (PNECs) Not available.

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

Wear protective gloves. - Hand protection

- 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.

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SECTION 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. Not applicable. pН

381 - 420 °C (717,8 - 788 °F) Melting point/freezing point Initial boiling point and 907 °C (1664,6 °F) estimated

boiling range

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 Not applicable.

(%) temperature

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. Not applicable.

Partition coefficient (n-octanol/water)

Auto-ignition temperature Not applicable. Not applicable. **Decomposition temperature** Not applicable. Viscosity **Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information

Density 6,60 - 7,20 g/cm3

Miscible (water) Insoluble.

6,92 Not applicable. Specific gravity

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.

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10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous No hazar

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

InhalationNot likely, due to the form of the product.Skin contactNot relevant, due to the form of the product.Eye contactNot relevant, due to the form of the product.IngestionNot relevant, due to the form of the product.

None known.

Symptoms None known.

11.1. Information on toxicological effects

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

irritation

Acute toxicity

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 toxicityThis 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

12.1. Toxicity No toxicity data noted for the ingredient(s).

12.2. Persistence and

degradability

12.3. Bioaccumulative No data available.

potential

Partition coefficient Not available.

n-octanol/water (log Kow)

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.

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

disposal company.

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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.

SECTION 14: Transport information

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

RID

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

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

IATA

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

IMDG

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 Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I 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

Not listed.

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

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

Aluminium (CAS 7429-90-5) Zinc (CAS 7440-66-6)

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.

Restrictions on use

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

Zinc (CAS 7440-66-6)

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

Aluminium (CAS 7429-90-5) Zinc (CAS 7440-66-6)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.

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Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

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

Training information

Disclaimer

Follow training instructions when handling this material.

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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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