# MATERION

#### PRODUCT INFORMATION SHEET

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

1.1. Product identifier

Name of the substance Iridium Targets

**Identification number** 231-095-9 (EC number)

Registration number **Document number** G06 **Synonyms** None.

09-November-2018 **Issue date** 

**Version number** 

**Revision date** 27-January-2021 Supersedes date 09-November-2018

#### 1.3. Details of the supplier of the product information sheet

**Supplier** 

Company name Materion Advanced Materials Germany GmbH

**Address** Borsigstrasse 10 63755 Alzenau

DE

**Division** 

**Telephone** 49.60.23.91.82.0 H. Schmiing

e-mail Materion.Germany@materion.com

Contact person Hermann Schmiing

1.4. Emergency telephone

number

49.60.23.91.82.0 H. Schmiing

#### 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 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 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 Germany GmbH

**Address** Borsigstrasse 10

63755 Alzenau

DE

**Division** 

**Telephone** 49.60.23.91.82.0 H. Schmiing

e-mail Materion.Germany@materion.com

Contact person Hermann Schmiing

1.4. Emergency telephone 49.60.23.91.82.0 H. Schmiing

number

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### 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

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

**Contains:** Iridium **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.

Refer to manufacturer/supplier for information on recovery/recycling. P502

Supplemental label

information

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

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
Iridium	99,9 - 100	7439-88-5 231-095-9	-	-	
Classification: -					

#### **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 with soap and water. Get medical attention if irritation develops and persists.

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

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

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

4.2. Most important symptoms and effects, both

acute and delayed

None known.

4.3. Indication of any immediate medical attention and special treatment

needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

**General fire hazards** No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media **Unsuitable extinguishing** 

Do not use water as an extinguisher.

media

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

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

Special firefighting

procedures

Use water spray to cool unopened containers.

**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

Keep unnecessary personnel away. 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 discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

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

Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Not available.

7.3. Specific end use(s) Not applicable.

### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

**Occupational exposure limits** 

No exposure limits noted for ingredient(s).

**Biological limit values** 

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

**Recommended monitoring** 

procedures

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

with the supplier of the personal protective equipment.

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

Skin protection

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

- Other Wear suitable protective clothing.

**Respiratory protection** No personal respiratory protective equipment normally required. In case of insufficient ventilation,

wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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

before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to

remove contaminants.

**Environmental exposure** 

controls

Environmental manager must be informed of all major releases.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

**Physical state** Solid. **Form** Solid. Colour Grey metallic.

Odour None.

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2480 Version #: 02 Revision date: 15-September-2021 **Odour threshold** Not applicable. Not applicable.

Melting point/freezing point 2446 °C (4434,8 °F) / Not applicable.

Initial boiling point and

boiling range

Not applicable.

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

Upper/lower flammability or explosive limits **Explosive limit - lower (** Not applicable.

%)

**Explosive limit - lower (** 

%) temperature

Not applicable.

**Explosive limit – upper** 

Not applicable.

Explosive limit - upper (

%) temperature

Not applicable.

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

Solubility(ies)

Solubility (water) Insoluble. **Partition coefficient** Not applicable.

(n-octanol/water)

**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** 22,42 g/cm3 estimated at 17 °C

**Shelf life** Not applicable. Specific gravity 22,42 at 17 °C

#### **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

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

No hazardous decomposition products are known.

decomposition products

#### **SECTION 11: Toxicological information**

**General information** Not available. 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** Expected to be a low ingestion hazard.

None known. **Symptoms** 11.1. Information on toxicological effects

**Acute toxicity** Due to lack of data the classification is not possible.

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

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2480 Version #: 02 Revision date: 15-September-2021 Serious eye damage/eye

irritation

Not likely, due to the form of the product.

Respiratory sensitisation

Not a respiratory sensitizer.

Skin sensitisation

This product is not expected to cause skin sensitisation.

**Germ cell mutagenicity** 

Not classified.

Carcinogenicity

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

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

Not applicable.

Other information

Not applicable.

#### **SECTION 12: Ecological information**

**12.1. Toxicity** 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.

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

potential

Not available.

Partition coefficient

n-octanol/water (log Kow)

Not available.

**Bioconcentration factor (BCF)** Not available. **12.4. Mobility in soil** Not 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 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.

#### **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.

**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

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

Not listed.

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

Not listed.

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 Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

National regulations Not available.

15.2. Chemical safety Not available.

assessment

#### **SECTION 16: Other information**

List of abbreviationsNot available.ReferencesNot available.Information on evaluationNot available.

method leading to the classification of mixture Training information

Not available.

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