# MATERION

# PRODUCT INFORMATION SHEET

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

1.1. Product identifier

Trade name or

Platinum Nickel Targets

designation of the mixture

Registration number Document number G51
Synonyms None.

**Issue date** 07-June-2019

Version number 03

**Revision date** 21-September-2021

1.3. Details of the supplier of the product information sheet

**Supplier** 

Company nameMaterion Advanced MaterialsAddress6070 Parkland BoulevardMayfield Heights, OH 44124

**United States** 

**Division** 

**Telephone** 1.216.383.4019

e-mail ehs@materion.comContact person Theodore Knudson1.4. Emergency telephone See Section 16.

number

**Supersedes date** 22-February-2021

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 nameMaterion Advanced MaterialsAddress6070 Parkland BoulevardMayfield Heights, OH 44124

**United States** 

**Division** 

**Telephone** 1.216.383.4019

e-mail ehs@materion.comContact person Theodore Knudson1.4. Emergency telephone See Section 16.

number

**SECTION 2: Hazards identification** 

2.1. Classification of the substance or mixture

The substance 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

**Health hazards** 

Skin sensitisation Category 1 H317 - May cause an allergic skin

reaction.

Carcinogenicity Category 2 H351 - Suspected of causing

cancer.

Material name: Platinum Nickel Targets

PIS LITHUANIA

2819 Version #: 03 Revision date: 21-September-2021 Print date: 21-September-2021 1 / 8

Category 1

H372 - Causes damage to organs (respiratory system) through prolonged or repeated exposure by inhalation.

**Hazard summary** May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs

through prolonged or repeated exposure.

#### 2.2. Label elements

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

**Contains:** NICKEL POWDER; [PARTICLE DIAMETER < 1MM]

**Hazard pictograms** 



Signal word Danger

**Hazard statements** 

H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.

H372 Causes damage to organs (respiratory system) through prolonged or repeated exposure by

inhalation.

#### **Precautionary statements**

#### **Prevention**

P201 Obtain special instructions before use.

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

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

P264 Wash thoroughly after handling.

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

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

P273 Avoid release to the environment.

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

Response

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

P308 + P313 If exposed or concerned: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

**Storage** 

P405 Store locked up.

**Disposal** 

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

Supplemental label

information

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

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

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

#### **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Platinum	90 - 99	7440-06-4 231-116-1	-	-	#
Classificatio	n: -				
NICKEL POWDER; [PARTICLE DIAMETER < 1MM]	1 - 10	7440-02-0 231-111-4	01-2119438727-29-0049	028-002-00-7	
Classification: Skin Sens. 1;H317, STOT SE 3;H335, Carc. 2;H351, STOT RE 2;H373					7 <b>,</b> S

#### **SECTION 4: First aid measures**

**General information** If you feel unwell, seek medical advice (show the label where possible).

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.

Material name: Platinum Nickel Targets

PIS LITHUANIA

2819 Version #: 03 Revision date: 21-September-2021 Print date: 21-September-2021 2 / 8

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

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

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

Powder. Dry sand.

**Unsuitable extinguishing** 

media

Water.

5.2. Special hazards arising from the substance or

mixture

No unusual fire or explosion hazards noted.

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.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

clean-up. 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. For waste disposal, see section 13 of the PIS.

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

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

personal protective equipment. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store away from incompatible materials (see Section 10 of the PIS).

7.3. Specific end use(s) Not available.

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

#### 8.1. Control parameters

# **Occupational exposure limits**

#### Lithuania. OELs. Limit Values for Chemical Substances, General Requirements **Components Value Type**

NICKEL POWDER; **TWA** 0,5 mg/m3 [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) Platinum (CAS 7440-06-4) **TWA** 1 mg/m3

Material name: Platinum Nickel Targets PIS LITHUANIA Revision date: 21-September-2021 Print date: 21-September-2021 3/8

2819 Version #: 03

# EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU,

2017/164/EU

Components **Value Type** Platinum (CAS 7440-06-4) **TWA** 1 mg/m3

**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 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. 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 If contact is likely, safety glasses with side shields are recommended.

Skin protection

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

- Other Use personal protective equipment as required.

Respiratory protection In case of inadequate ventilation, use respiratory protection. Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Observe any medical surveillance requirements. Contaminated work clothing should not be allowed

out of the workplace.

**Environmental exposure** 

controls

Good general ventilation 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.

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

# 9.1. Information on basic physical and chemical properties

**Appearance** 

**Physical state** Solid. **Form** Solid. Colour Dark grey. Odour None.

**Odour threshold** Not applicable. Not applicable.

Melting point/freezing point 1455 °C (2651 °F) estimated / 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 (** 

Not applicable.

%) temperature

**Explosive limit – upper** 

Not applicable.

(%)

Explosive limit - upper ( Not applicable. %) temperature

Material name: Platinum Nickel Targets PIS LITHUANIA Revision date: 21-September-2021 2819 Version #: 03 Print date: 21-September-2021 4/8 Vapour pressureNot applicable.Vapour densityNot applicable.Relative densityNot applicable.

Solubility(ies)

Solubility (water)

Partition coefficient (n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not applicable.

Oxidising properties 9.2. Other information

**Density** 20,30 g/cm3 estimated

# **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.

Not oxidising.

**10.3. Possibility of hazardous** No dangerous reaction known under conditions of normal use.

reactions

**10.4. Conditions to avoid** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

**10.5. Incompatible materials** Strong acids.

**10.6. Hazardous** No hazardous decomposition products are known.

decomposition products

# **SECTION 11: Toxicological information**

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

Information on likely routes of exposure

InhalationProlonged inhalation may be harmful.Skin contactMay cause an allergic skin reaction.Eye contactNot likely, due to the form of the product.IngestionExpected to be a low ingestion hazard.

**Symptoms** May cause respiratory irritation. May cause an allergic skin reaction. Dermatitis. Rash.

#### 11.1. Information on toxicological effects

**Acute toxicity** None known.

**Skin corrosion/irritation** May cause skin irritation.

Serious eye damage/eye

**Respiratory sensitisation** Not a respiratory sensitizer.

**Skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Suspected of causing cancer.

# IARC Monographs. Overall Evaluation of Carcinogenicity

NICKEL POWDER; [PARTICLE DIAMETER < 1MM] 2B Possibly carcinogenic to humans.

Not likely, due to the form of the product.

(CAS 7440-02-0)

**Reproductive toxicity** Not classified. **Specific target organ toxicity** Not classified.

- single exposure

Specific target organ toxicity

May cause damage to organs through prolonged or repeated exposure.

- repeated exposure

**Aspiration hazard**Not an aspiration hazard. **Mixture versus substance**No information available.

information

**Other information** Not available.

Material name: Platinum Nickel Targets

PIS LITHUANIA

2819 Version #: 03 Revision date: 21-September-2021 Print date: 21-September-2021 5 / 8

# **SECTION 12: Ecological information**

**12.1. Toxicity** Based on available data, the classification criteria are not met for hazardous to the aquatic

environment.

Product Species Test Results

Platinum Nickel Targets

Aquatic

Acute

Fish LC50 Fish 0,6 mg/l, 4 days estimated

Components Species Test Results

NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0)

**Aquatic** 

Acute

Fish LC50 Rainbow trout, donaldson trout

0,06 mg/l, 4 days

(Oncorhynchus mykiss)

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative

potential

No data available.

Partition coefficient

Not applicable.

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

methods/information

Not a PBT or vPvB substance or mixture.

12.6. Other adverse 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**

#### 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**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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**

#### **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

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

Not listed.

Material name: Platinum Nickel Targets

PIS LITHUANIA
2819 Version #: 03 Revision date: 21-September-2021 Print date: 21-September-2021 6 / 8

### 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

NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0)

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

NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0)

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.

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

Regulation) as amended.

**National regulations** According to Directive 92/85/EEC as amended, pregnant women should not work with the product,

if there is the least risk of exposure.

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. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

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

**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 calculation

methods and test data, if available.

**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

Material name: Platinum Nickel Targets

PIS LITHUANIA

2819 Version #: 03 Revision date: 21-September-2021 Print date: 21-September-2021 7 / 8

# 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.

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).

Material name: Platinum Nickel Targets

PIS LITHUANIA
2819 Version #: 03 Revision date: 21-September-2021 Print date: 21-September-2021 8 / 8