MATERION

PRODUCT INFORMATION SHEET

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

1.1. Product identifier

Name of the substance Platinum Product **Identification number** 231-116-1 (EC number)

Registration number **Document number** G18 **Synonyms** None.

04-March-2019 **Issue date**

Version number 02

Revision date 13-July-2021 Supersedes date 04-March-2019

1.3. Details of the supplier of the product information sheet

Supplier

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

United States

Division

Telephone 1.216.383.4019

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

number

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

Identified uses Scientific research and development

Other: Manufacture of medical and defense equipment Manufacture of computer, electronic and

optical products, electrical equipment

Professional uses: Public domain (administration, education, entertainment, services, craftsmen) 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 Theodore Knudson Contact person 1.4. Emergency telephone See Section 16.

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Physical hazards

Pyrophoric solids Category 1

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

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: Platinum Product PIS NETHERLANDS 2573 Version #: 02 1/8

Revision date: 16-September-2021 Print date: 16-September-2021 Label according to Regulation (EC) No. 1272/2008 as amended

Platinum Product **Contains:**

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.

Disposal Not available.

Supplemental label

For further information, please contact the Product Stewardship Department at +1.800.862.4118.

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
Platinum Product	100	7440-06-4 231-116-1	-	-	#
Classifi	ication: -				

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 Call a physician if symptoms develop or persist.

Skin contact Get medical attention if irritation develops and persists. **Eye contact** Get medical attention if irritation develops and persists.

Ingestion Get medical advice/attention if you feel unwell.

4.2. Most important None known.

symptoms and effects, both

acute and delayed

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. Use methods for the surrounding fire.

Unsuitable extinguishing

media

None known.

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

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 emergency responders

Keep unnecessary personnel away.

6.2. Environmental

precautions

Collect spillage.

6.3. Methods and material for containment and cleaning up

Collect spillage.

6.4. Reference to other

sections

Not available.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Not available.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Netherlands, OELs (binding)

Material	Туре	Value
Platinum Product (CAS 7440-06-4)	TWA	1 mg/m3

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

2017/164/FU

Material	Туре	Value
Platinum Product (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.

Exposure guidelines

This material does not have established exposure limits.

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

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limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information As a standard hygiene practice, wash hands before eating or smoking.

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 Use personal protective equipment as required.

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measuresAlways 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.

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Environmental exposure

Environmental manager must be informed of all major releases. controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

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

Odour threshold Not applicable. Not applicable.

Melting point/freezing point 1768,4 °C (3215,12 °F) / Not applicable.

Initial boiling point and

boiling range

3825 °C (6917 °F)

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 -

upper (%)

Not applicable.

Explosive limit - lower (

Not applicable.

Explosive limit - upper

(%)

Not applicable.

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

Solubility(ies)

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

(n-octanol/water)

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

9.2. Other information

21,45 g/cm3 estimated Density

Molecular formula

Molecular weight 195,08 g/mol

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. 10.2. Chemical stability

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 Acids. Chlorine.

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.

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Information on likely routes of exposure

Inhalation Not likely, due to the form of the product. Skin contact Not likely, due to the form of the product. **Eye contact** Not likely, due to the form of the product. Ingestion Expected to be a low ingestion hazard.

Symptoms None known.

11.1. Information on toxicological effects

Acute toxicity No data available.

Not relevant, 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 Not a skin sensitiser. Germ cell mutagenicity Not classified. Carcinogenicity Not classified. Reproductive toxicity Not classified.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

Aspiration hazard

Mixture versus substance

Not an aspiration hazard. No information available.

information

Other information This product has no known adverse effect on human health.

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

No data is available on the degradability of this product.

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 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.

Refer to manufacturer/supplier for information on recovery/recycling. Contaminated packaging

EU waste code Not available.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN3200

PYROPHORIC SOLID, INORGANIC, N.O.S. (Platinum Product) 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Class 4.2 Subsidiary risk Label(s) 4.2 Hazard No. (ADR) 43

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Tunnel restriction B/E code 14.4. Packing group Ι 14.5. Environmental No. hazards 14.6. Special precautions Not available. for user **RID** 14.1. UN number UN3200 PYROPHORIC SOLID, INORGANIC, N.O.S. (Platinum Product) 14.2. UN proper shipping name 14.3. Transport hazard class(es) 4.2 Class **Subsidiary risk** Label(s) 4.2 14.4. Packing group Ι 14.5. Environmental No. hazards 14.6. Special precautions Not available. for user **ADN 14.1. UN number** UN3200 14.2. UN proper shipping PYROPHORIC SOLID, INORGANIC, N.O.S. (Platinum Product) name 14.3. Transport hazard class(es) Class 4.2 Subsidiary risk 4.2 Label(s) 14.4. Packing group Ι 14.5. Environmental No. hazards 14.6. Special precautions Not available. for user **IATA 14.1. UN number** UN3200 14.2. UN proper shipping Pyrophoric solid, inorganic, n.o.s. (Platinum Product) name 14.3. Transport hazard class(es) 4.2 **Subsidiary risk** Not available. 14.4. Packing group 14.5. Environmental No. hazards **ERG Code** 4L 14.6. Special precautions Not available. for user Other information Passenger and cargo Forbidden aircraft Cargo aircraft only Forbidden **IMDG 14.1. UN number** UN3200 14.2. UN proper shipping PYROPHORIC SOLID, INORGANIC, N.O.S. (Platinum Product) name 14.3. Transport hazard class(es) Class 4.2 **Subsidiary risk** 14.4. Packing group Ι 14.5. Environmental hazards Marine pollutant F-G, S-M **EmS** 14.6. Special precautions Not available.

for user

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ADN; ADR; IATA; IMDG; RID



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

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

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.

Non-exhaustive list of substances toxic for reproduction

Not listed

SZW list of carcinogenic substances

Not listed.

SZW list of mutagenic substances

Not listed.

15.2. Chemical safety Not available.

assessment

SECTION 16: Other information

List of abbreviationsNot available. **References**Not available.

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Information on evaluation method leading to the classification of mixture

Not applicable.

Training information Further information

Follow training instructions when handling this material.

Transportation Emergency

Call Chemtrec at:

regulations.

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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