MATERION

SAFETY DATA SHEET

1. Identification

Product identifier **Platinum Targets**

Other means of identification

SDS number G10 **CAS** number 7440-06-4

Recommended use Manufacture of computer, electronic and optical products, electrical equipment

Scientific research and development

Other: Manufacture of medical and defense equipment

Recommended restrictions Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

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

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

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

United States

EH&S 1.216.383.4019 **Telephone**

Website www.materion.com E-mail ehs@materion.com Contact person Theodore Knudson **Emergency phone number** See Section 16. See above.

Supplier

2. Hazard identification

Not classified. Physical hazards

Serious eye damage/eye irritation Health hazards Category 2B

> Sensitization, skin Category 1

Environmental hazards Not classified.

Label elements



Signal word Warning

Hazard statement May cause an allergic skin reaction. Causes eye irritation.

Precautionary statement

Prevention Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated

work clothing should not be allowed out of the workplace. Wear protective gloves. Observe good

industrial hygiene practices.

IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several Response

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Wash hands after handling. Take off contaminated clothing and wash it before reuse.

Storage Store away from incompatible materials.

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

Other hazards None known.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Platinum Targets		7440-06-4	100

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician

if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment

needed

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause an allergic skin reaction. Dermatitis. Rash. Under normal conditions of intended use, this

material does not pose a risk to health.

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Water spray, foam, dry powder or carbon dioxide.

Do not use water jet as an extinguisher, as this will spread the fire.

Not a fire hazard.

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

equipment/mstructions

General fire hazards

Specific methods

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

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing.

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective

equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH	Threshold	Limit	Values
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Material	Туре	Value
Platinum Targets (CAS	TWA	1 mg/m3
7440-06-4)		

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Material	Type	Value	
Platinum Targets (CAS	TWA	1 fibers/cm3	
7440-06-4)			

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety

Regulation 296/97, as amended)		,	,
Material	Type	Value	

	7 ,	
Platinum Targets (CAS	TWA	1 mg/m3
7440-06-4)		

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

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

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

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

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

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

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Material	Туре	Value	
Platinum Targets (CAS 7440-06-4)	15 minute	3 mg/m3	
	8 hour	1 mg/m3	

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

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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Wear gloves to prevent metal cuts and skin abrasions

during handling.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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

9. Physical and chemical properties

Appearance

Solid. Physical state Solid. **Form** Color Silver-white.

None. Odor

Odor threshold Not applicable. Hα Not applicable.

Melting point/freezing point 3215.12 °F (1768.4 °C) / Not applicable.

Initial boiling point and boiling

range

Not applicable.

Flash point Not applicable. Not available. **Evaporation rate** 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.

Explosive limit - lower (%) Not applicable.

Explosive limit - lower (%)

temperature

Not applicable.

Not applicable. Explosive limit - upper (%) Explosive limit - upper (%) Not applicable.

temperature

Vapor pressure Not applicable. Vapor density Not applicable. Relative density Not applicable.

Solubility(ies)

Solubility (water) Insoluble

Not applicable. Partition coefficient

(n-octanol/water)

Auto-ignition temperature Not applicable. **Decomposition temperature** Not applicable. Viscosity Not applicable.

Other information

Density 21.45 g/cm3 estimated

Material name: Platinum Targets

Explosive properties Not explosive.

Molecular formula Pt

Molecular weight 195.08 g/mol
Oxidizing properties Not oxidizing.

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Aluminum. Phosphorus.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact May cause an allergic skin reaction.

Eye contact Causes eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. May cause an allergic skin reaction.

Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritationNot relevant, due to the form of the product.

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory or skin sensitization

Canada - Quebec OELs: Sensitizer

Platinum Targets (CAS 7440-06-4) Sensitizer.

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

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.

Chronic effects None known.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. **Persistence and degradability** No data is available on the degradability of this substance.

Bioaccumulative potential No data available.

No data available. Mobility in soil

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions 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.

Local disposal regulations Dispose in accordance with all applicable regulations.

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

disposal company.

Waste from residues / unused

products

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.

14. Transport information

TDG

UN number UN3200

UN proper shipping name Transport hazard class(es) PYROPHORIC SOLID, INORGANIC, N.O.S. (Platinum Targets)

Class 4.2 Subsidiary risk Packing group

Environmental hazards Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number

UN proper shipping name Pyrophoric solid, inorganic, n.o.s. (Platinum Targets) Transport hazard class(es)

Class 4.2 Subsidiary risk

Not available. Packing group

Environmental hazards No. **ERG Code** 4L

Special precautions for user

Other information

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Forbidden

Forbidden Cargo aircraft only

IMDG

UN number UN3200

UN proper shipping name Transport hazard class(es) PYROPHORIC SOLID, INORGANIC, N.O.S. (Platinum Targets)

Class 4.2 Subsidiary risk Packing group **Environmental hazards**

Marine pollutant No. **EmS** F-G, S-M

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

Material name: Platinum Targets SDS CANADA 6/8 2521 Version #: 03 Revision date: 06-29-2021 Issue date: 11-05-2019

IATA; IMDG; TDG



15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

 Issue date
 11-05-2019

 Revision date
 06-29-2021

Version # 03

Further information Transportation Emergency

Call Chemtrec at:

International: 703.741.5970

Spain: 900.868.538

Switzerland: 0800.564.402

Disclaimer

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