

# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name : Platinum

### 1.2 Details of the supplier of the safety data sheet

Company :	ASAHI METALFINE, Inc.
Address :	Sapia Tower 11F 1-7-12 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
Telephone :	+81-3-6270-1826
FAX :	+81-3-6270-1813

#### **1.3 Emergency telephone number**

Telephone : +81-297-20-9032

# 2. HAZARDS IDENTIFICATION

GHS classification and label element of the product

# 2.1 Classification of the substance or mixture

# HEALTH HAZARDS

Skin corrosion/irritation Eye damage/irritation Sensitization-Respiratory Specific target organ toxicity (single exposure)

Danger

- : Category 2
- : Category 2A
- : Category 1
- : Category 3 (Respiratory tract irritation)

# 2.2 Label elements

Pictogram : Signal word :

# HAZARD STATEMENTS

- H315 : Causes skin irritation
- H319 : Causes serious eye irritation
- H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 : May cause respiratory irritation

# PRECAUTIONARY STATEMENTS

#### Prevention

- P261 : Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P264 : Wash hands thoroughly after handling.
- P271 : Use only outdoors or in a well-ventilated area.
- P280 : Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P284 : [In case of inadequate ventilation] wear respiratory protection.

# Response

P302+P352 : IF ON SKIN: Wash with plenty of water.



P332+P313 : If skin irritation occurs : Get medical advice/attention.
P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 : If eye irritation persists: Get medical advice/attention.
P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 : If experiencing respiratory symptoms: Call a doctor.
P312 : Call a doctor if you feel unwell.
P362+P364 : Take off contaminated clothing and wash it before reuse.

#### Storage

P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405 : Store locked up.

#### Disposal

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

# 3. COMPOSITION/INFORMATION IN INGREDIENTS

#### 3.1 Substances

Formula	:	Pt
CAS-No.	:	7440-06-4
Content	:	≧99.95%

# 4. FIRST AID MEASURES

# 4.1 Description of first-aid measures

# IF INHALED

Remove person to fresh air and keep comfortable for breathing. Get medical attention/advice if you feel unwell.

If experiencing respiratory symptoms: Call a doctor.

# IF ON SKIN

Wash with plenty of water.

If skin irritation or rash occurs: Get medical attention/advice

Take off contaminated clothing and wash it before reuse.

#### IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention/advice

#### **IF SWALLOWED**

Rinse your mouth immediately.

Get medical attention/advice if you feel unwell.

# **5. FIRE-FIGHTING MEASURES**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Use extinguishing measure that are appropriate to local circumstances and the surrounding environment.



#### 5.2 Specific hazards arising from the substance or mixture

No specific hazards identified by high temperature decomposition. Avoid contact of molten platinum with water.

# 6. ACCIDENTAL RELEASE MEASURES

# **6.1 Personnel precautions, protective equipment and emergency procedures** Use proper personal protective equipment as indicated in Section 8.

#### 6.2 Environmental precautions

Avoid release to the environment.

# 6.3 Methods and materials for containment and cleaning up

Spills/Leaks : Sweep up material and place into a suitable disposal container.

# 7. HANDLING AND STORAGE

# 7.1 Handling

#### Handling precautions

Avoid breathing dust, vapor, mist, or gas.

#### Safety Measures

In areas where this product is melted or where dust, fumes or other particles are generated during processing of this product:

Use general or local ventilation. Wear protective gloves / protective clothing / eye protection / face protection.

# Advice on general occupational hygiene

Wash hands thoroughly after handling. Don't eat, drink or smoke when using this product.

#### 7.2 Storage

In the lump state, no special requirements. Keep container tightly closed. Store locked up.

# 8. EXPOSURE CONTROLS

### 8.1 Control parameters

ACGIH TLV

Substance	ACGIH TLV
Platinum [7440-06-4] , and soluble salts (1981)	
Metal	TWA : 1mg/m <sup>3</sup>
Soluble salts, as Pt	TWA : 0.002mg/m <sup>3</sup>

#### 8.2 Exposure controls

#### **Engineering Controls**

In areas where this product is melted or where dust, fumes or other particles are generated during processing of this product:



Equip with an eyewash facility and a safety shower. Use adequate general or local ventilation.

#### **Personal Protective Equipment**

Respiratory protection : Wear appropriate respiratory protection. Hand protection : Wear appropriate protective gloves. Eye protection : Wear appropriate safety glasses or chemical safety goggles. Skin and body protection : Wear appropriate protective clothing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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

• •	
Appearance	Form : solid
	Color : silver
• Odor	odorless
Melting Point	1,769℃
Boiling Point	3,827℃
or initial boiling point and boiling range	
Flammability	No data available
<ul> <li>Lower and upper explosion limit</li> </ul>	No data available
flammability limit	
• Flash point	No data available
<ul> <li>Auto-ignition temperature</li> </ul>	No data available
Decomposition temperature	No data available
• pH	No data available
Kinematic viscosity	Not applicable for solids
Water solubility	Insoluble in water
Partition coefficient n-octanol/water	No data available
Vapor pressure	No data available
• Density	21.45 g/cm <sup>3</sup>
Relative Vapor density	No data available
Particle characteristics	No data available

### **10.STABILITY AND REACTIVITY**

#### 10.1 Reactivity / 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

The metal is non-flammable.

The fine powder is a strong catalyst and may cause fire or explotion.

# 10.4 Conditions to avoid

Avoid contact with incompatible materials.

#### 10.5 Incompatible materials

Aluminum, Acetone, Arsenic, Ethane, Hydrazine, Hydrogen peroxide, Lithium, Phosphorus, Selenium,



Tellurium

# 10.6 Hazardous decomposition products

No information available

# **11. TOXICOLOGICAL INFORMATION**

Acute toxicity : Classification not possible Skin corrosion/irritation : Category 2 Serious eye damage/ irritation : Eye damage/irritation : Category 2A Sensitization-Respiratory : Category 1 Sensitization-Skin : Not classified Germ cell mutagenicity : Classification not possible Carcinogenicity : Classification not possible Reproductive toxicity : Classification not possible Specific target organ toxicity (single exposure) : Category 3 (Respiratory tract irritation) Specific target organ toxicity (repeated exposure) : Not classified Aspiration hazard : Classification not possible

# **12. ECOLOGICAL INFORMATION**

# 12.1 Ecotoxicity

Hazardous to the aquatic environment - short-term(acute) hazard : Classification not possible Hazardous to the aquatic environment - long-term(chronic) hazard : Classification not possible Hazardous to the ozone layer : Classification not possible

# 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

No data available

# 12.5 Other adverse effects

No data available

# **13. DISPOSAL CONSIDERATIONS**

# **13.1** Waste treatment methods

Dispose of the contents/container to in accordance with local/national regulation.

# **14. TRANSPORT INFORMATION**

The product is not regulated under UN regulations.

UN-No: -

Specific precautionary transport measures and conditions : No data available



# **15. REGULATORY INFORMATION**

Please note that regulatory requirements may vary depending on your country or region. It is the responsibility of the user to ensure compliance with applicable regulations.

Please consult the appropriate authorities or seek professional advice to ensure compliance with all relevant regulations and requirements in your country or region.

# **16. ADDITIONAL INFORAMTION**

#### **Reference Book**

- JIS Z 7252(2019) / JIS Z 7253(2019)
- · Globally Harmonized System of classification and labelling of chemicals,(6th ed.,2015), UN
- · 2021 TLVs and BEIs (ACGIH)
- NITE : National Institute of Technology and Evaluation (JP)
- anzeninfo.mhlw (Ministry of Health,Labour and Welfare) (JP)

### **General Disclaimer**

This information does not guarantee the quality or safety of the product. It provides information on the danger or hazard of the product.

The data and evaluation described in this manual are not always sufficient. All chemical products have unknown hazards, so be careful when handling them.

The precautions are intended for normal handling and should be taken with sufficient safety measures in case of special handling.