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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: Category 2Eye damage/irritation: Category 2ASensitization-Respiratory: Category 1

Specific target organ toxicity (single exposure) : Category 3 (Respiratory tract irritation)

2.2 Label elements

Pictogram: Signal word:

Danger

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.



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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.

If experiencing respiratory symptoms: Get medical attention/advice

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.



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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/m³ (Metal)
Soluble salts, as Pt	•TWA: 0.002mg/m³ (Soluble salts, as Pt)

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.



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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

FlammabilityLower and upper explosion limitNo data available

flammability limit

Flash point No data available
Auto-ignition temperature 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/cm³
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



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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



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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.