

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Product Name** AAPT1  
**Product Description** 1000 µg/mL Platinum  
Contains Hydrochloric acid

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

**Recommended Use** Laboratory chemicals  
**Uses advised against** No information available

### 1.3. Details of the supplier of the safety data sheet

**Company**  
Inorganic Ventures  
300 Technology Drive  
Christiansburg, VA 24073  
web: www.inorganicventures.com

### 1.4. Emergency telephone number

Chemtrec 1-800-424-9300 (North America)  
Chemtrec +1 703-741-5970 (International)

|        |           |
|--------|-----------|
| Europe | See above |
|--------|-----------|

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to  
Regulation (EC) No. 1272/2008 [CLP]

#### GHS

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Acute toxicity - Inhalation (Gases) | Category 4 - (H332)                |
| Skin corrosion/irritation           | Category 1 Sub-category A - (H314) |
| Serious eye damage/eye irritation   | Category 1 - (H318)                |

### 2.2. Label elements

**Product identifier**  
Contains Hydrochloric acid



**Signal word**  
Danger

**Hazard statements**

H314 - Causes severe skin burns and eye damage

H332 - Harmful if inhaled

**Precautionary Statements - EU (§28, 1272/2008)**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**2.3. Other hazards**

No information available

**SECTION 3: Composition/information on ingredients****3.1 Substances**

| Chemical name     | EC No (EU Index No) | CAS No.   | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH registration number |
|-------------------|---------------------|-----------|----------|-----------------------------------------------------------------|---------------------------|
| Hydrochloric acid | 231-595-7<br>0      | 7647-01-0 | 10       | Acute Tox. 3 (H331)<br>Skin Corr. 1A (H314)<br>STOT SE 3 (H335) | No data available         |

Full text of H- and EUH-phrases: see section 16**SECTION 4: First aid measures****4.1. Description of first aid measures****General Advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air. Artificial respiration and/or oxygen may be necessary. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is required.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. If symptoms persist, call a physician.

**Ingestion**

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

**Self-protection of the first aider**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**4.2. Most important symptoms and effects, both acute and delayed****Most Important Symptoms and Effects**

Difficulty in breathing.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable Extinguishing Media**

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

**Unsuitable Extinguishing Media**

No information available

**5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors

**5.3. Advice for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing.

Refer to protective measures listed in Sections 7 and 8.

**Advice for emergency responders**

Ensure adequate ventilation.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. See Section 12 for additional Ecological Information.

**6.3. Methods and material for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**

Take up mechanically, placing in appropriate containers for disposal.

**6.4. Reference to other sections**

See Section 12: ECOLOGICAL INFORMATION.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Ensure adequate ventilation.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work

clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

## 7.2. Conditions for safe storage, including any incompatibilities

### Storage Conditions

Keep container tightly closed in a dry and well-ventilated place.

## 7.3. Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Chemical name                  | European Union                                                             | United Kingdom                                                                 | France                                                     | Spain                                                          | Germany DFG                                                  |                                                              |
|--------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| Hydrochloric acid<br>7647-01-0 | TWA: 5 ppm<br>TWA: 8 mg/m³<br>STEL: 10 ppm<br>STEL: 15 mg/m³               | TWA: 1 ppm<br>TWA: 2 mg/m³<br>STEL: 5 ppm<br>STEL: 8 mg/m³                     | VLCT: 7.6 mg/m³<br>VLTC: 5 ppm                             | TWA: 5 ppm<br>TWA: 7.6 mg/m³<br>STEL: 10 ppm<br>STEL: 15 mg/m³ | TWA: 2 ppm<br>TWA: 3.0 mg/m³<br>Peak: 4 ppm<br>Peak: 6 mg/m³ |                                                              |
| Chemical name                  | Italy MDLPS                                                                | Portugal                                                                       | Netherlands                                                | Finland                                                        | Denmark                                                      |                                                              |
| Hydrochloric acid<br>7647-01-0 | TWA: 5 ppm<br>TWA: 8 mg/m³                                                 | TWA: 5 ppm<br>TWA: 8 mg/m³<br>STEL: 10 ppm<br>STEL: 15 mg/m³<br>Ceiling: 2 ppm | TWA: 8 mg/m³<br>STEL: 15 mg/m³                             | STEL: 7.6 mg/m³<br>STEL: 5 ppm                                 | Ceiling: 7 mg/m³<br>Ceiling: 5 ppm                           |                                                              |
| Chemical name                  | Sweden                                                                     | Austria                                                                        | Switzerland                                                | Poland                                                         | Norway                                                       | Ireland                                                      |
| Hydrochloric acid<br>7647-01-0 | LLV: 2 ppm<br>LLV: 3 mg/m³<br>Binding STLV: 4 ppm<br>Binding STLV: 6 mg/m³ | TWA: 5 ppm<br>TWA: 8 mg/m³<br>STEL 10 ppm<br>STEL 15 mg/m³                     | TWA: 2 ppm<br>TWA: 3 mg/m³<br>STEL: 4 ppm<br>STEL: 6 mg/m³ | NDSCh: 10mg/m³<br>NDS: 5mg/m³                                  | Ceiling: 5 ppm<br>Ceiling 7 mg/m³                            | TWA: 8 mg/m³<br>TWA: 5 ppm<br>STEL: 10 ppm<br>STEL: 15 mg/m³ |

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

#### Eye/Face Protection

Wear safety glasses with side shields (or goggles).

#### Hand Protection

Impervious gloves.

#### Skin and Body Protection

Long sleeved clothing. Boots.

#### Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**Environmental Exposure Controls** Prevent product from entering drains.

## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Appearance

clear / Orange

#### Odor

Slight chlorine

#### pH - VALUE 1

No data available

#### Melting point / melting range

No data available

#### Initial boiling point and boiling range

No data available °C

#### Flash Point

Not applicable

#### Evaporation rate

No data available

#### Flammability (solid, gas)

No data available

|                                        |                          |
|----------------------------------------|--------------------------|
| Vapor pressure @20 °C (kPa)            | No data available        |
| Relative vapor density                 | No data available        |
| Relative Density                       | No data available        |
| Specific gravity - VALUE 1             | No data available        |
| Water solubility                       | Miscible                 |
| Partition coefficient: n-octanol/water | No data available        |
| Autoignition temperature               | No data available        |
| Decomposition temperature              | No data available        |
| Dynamic viscosity - VALUE 1            | No data available        |
| Explosive Properties                   | No information available |
| Oxidizing Properties                   | No information available |
| VOC content                            | No information available |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

#### Explosion Data

Sensitivity to Mechanical Impact    None.

Sensitivity to Static Discharge        None.

### 10.3. Possibility of hazardous reactions

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### **Hazardous Reactions**

None under normal processing.

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

Reducing agent

### 10.6. Hazardous decomposition products

Hydrogen chloride.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute Toxicity**

|                                   |                                                                                                  |
|-----------------------------------|--------------------------------------------------------------------------------------------------|
| <b><u>Product Information</u></b> | Irritating to eyes. Irritating to skin. Irritating to respiratory system. Harmful by inhalation. |
| <b>Inhalation</b>                 | Vapors may be irritating to eyes, nose, throat, and lungs. Harmful by inhalation.                |
| <b>Eye Contact</b>                | Irritating to eyes.                                                                              |
| <b>Skin Contact</b>               | Irritating to skin.                                                                              |
| <b>Ingestion</b>                  | Ingestion may cause irritation to mucous membranes.                                              |

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                 |
|--------------------------------------|-----------------|
| <b>ATEmix (oral)</b>                 | 2,380.00 mg/kg  |
| <b>ATEmix (dermal)</b>               | 50,100.00 mg/kg |
| <b>ATEmix (inhalation-gas)</b>       | 5,633.00 ppm    |
| <b>ATEmix (inhalation-dust/mist)</b> | 5.01 mg/l       |
| <b>ATEmix (inhalation-vapor)</b>     | 30.00 mg/l      |

**Unknown acute toxicity**

0 % of the mixture consists of ingredient(s) of unknown acute toxicity.  
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.  
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

|                                          |                           |
|------------------------------------------|---------------------------|
| <b>Skin corrosion/irritation</b>         | No information available. |
| <b>Serious eye damage/eye irritation</b> | No information available. |
| <b>Sensitization</b>                     | No information available. |
| <b>Mutagenic Effects</b>                 | No information available. |
| <b>Carcinogenic effects</b>              |                           |
| <b>Reproductive Toxicity</b>             | No information available. |
| <b>STOT - single exposure</b>            | No information available. |
| <b>STOT - repeated exposure</b>          | No information available. |
| <b>Target organ effects</b>              | Respiratory system.       |
| <b>Aspiration hazard</b>                 | No information available. |

**SECTION 12: Ecological information****12.1. Toxicity**

Contains 0 % of components with unknown hazards to the aquatic environment

**12.2. Persistence and degradability**

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

#### **Mobility in soil**

No information available.

### 12.5. Results of PBT and vPvB assessment

| Chemical name     | PBT and vPvB assessment         |
|-------------------|---------------------------------|
| Hydrochloric acid | The substance is not PBT / vPvB |

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Waste from Residues/Unused Products**

Dispose of in accordance with federal, state and local regulations.

#### **Contaminated Packaging**

Do not reuse empty containers.

#### **Other Information**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

### IMDG

|                                                                                         |                                            |
|-----------------------------------------------------------------------------------------|--------------------------------------------|
| 14.1. UN-No                                                                             | UN3264                                     |
| 14.2. Proper shipping name                                                              | Corrosive liquid, acidic, inorganic, n.o.s |
| 14.3. Transport hazard class(es)                                                        | 8                                          |
| 14.4. Packing Group                                                                     | III                                        |
| Description                                                                             | Not applicable                             |
| 14.5. Marine Pollutant                                                                  | None                                       |
| 14.6. Special Provisions                                                                | None                                       |
| No information available in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Transport No information available         |

### RID

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| 14.1. UN-No                      | UN3264                                     |
| 14.2. Proper shipping name       | Corrosive liquid, acidic, inorganic, n.o.s |
| 14.3. Transport hazard class(es) | 8                                          |
| 14.4. Packing Group              | III                                        |
| Description                      | Not applicable                             |
| 14.5. Environmental hazard       | None                                       |
| 14.6. Special Provisions         | None                                       |

### ADR

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| 14.1. UN-No                      | UN3264                                     |
| 14.2. Proper shipping name       | Corrosive liquid, acidic, inorganic, n.o.s |
| 14.3. Transport hazard class(es) | 8                                          |

|                                   |                |
|-----------------------------------|----------------|
| <b>14.4. Packing Group</b>        | III            |
| <b>Description</b>                | Not applicable |
| <b>14.5. Environmental hazard</b> | None           |
| <b>14.6. Special Provisions</b>   | None           |

**ICAO**

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| <b>14.1. UN-No</b>                | UN3264                                     |
| <b>14.2. Proper Shipping Name</b> | Corrosive liquid, acidic, inorganic, n.o.s |
| <b>14.3. Hazard Class</b>         | 8                                          |
| <b>14.4. Packing Group</b>        | III                                        |
| <b>Description</b>                | Not applicable                             |
| <b>14.5. Environmental hazard</b> | None                                       |
| <b>14.6. Special Provisions</b>   | None                                       |

**IATA-DGR**

|                                         |                                                                                        |
|-----------------------------------------|----------------------------------------------------------------------------------------|
| <b>14.1. UN-No</b>                      | UN3264                                                                                 |
| <b>14.2. Proper shipping name</b>       | Corrosive liquid, acidic, inorganic, n.o.s; Corrosive liquid, acidic, inorganic, n.o.s |
| <b>14.3. Transport hazard class(es)</b> | 8                                                                                      |
| <b>14.4. Packing Group</b>              | III                                                                                    |
| <b>Description</b>                      | Not applicable                                                                         |
| <b>14.5. Environmental hazard</b>       | None                                                                                   |
| <b>14.6. Special Provisions</b>         | None                                                                                   |

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**International Inventories**

**All of the components in the product are on the following Inventory lists:** U.S.A. (TSCA), Europe (EINECS/ELINCS/NLP), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), China (IECSC), Australia (AICS), Korea (ECL).

|                      |          |
|----------------------|----------|
| <b>TSCA</b>          | Complies |
| <b>EINECS/ELINCS</b> | Complies |
| <b>DSL/NDSL</b>      | Complies |
| <b>PICCS</b>         | Complies |
| <b>ENCS</b>          | Complies |
| <b>IECSC</b>         | Complies |
| <b>AIIC</b>          | Complies |
| <b>KECL</b>          | Complies |

**Legend**

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances

### 15.2. Chemical safety assessment

No information available

## SECTION 16: Other information

**Full text of R-phrases referred to under sections 2 and 3**

No information available

**Full text of H-Statements referred to under section 3**

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

H335 - May cause respiratory irritation

**Revision Date** 09-Dec-2024**Reason for Revision** Not applicable.**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**