

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Formamidinium bromide  
Product number : PY-H7202  
Synonyms : FABr, Formamidine Hydrobromide, methanimidamide hydrobromide, Iminomethylamine hydrobromide  
CAS No. : 146958-06-7

### Manufacturer or supplier's details

Company name of supplier : PY Materials, LLC  
Address : 2 Davis Drive, Durham, North Carolina 27709, USA.  
Telephone : +1-919-454-4552  
E-mail address : sales@pymaterials.com  
Transportation Emergencies : Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)  
+1-703-527-3887 (International)

### Recommended use of the chemical and restrictions on use

Recommended use : Use as laboratory reagent

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## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### GHS label elements

Not a hazardous substance or mixture.

### Other hazards

None known.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance  
Substance name : Formamidinium bromide  
CAS RN : 146958-06-7

### Components

No hazardous ingredients

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## SECTION 4. FIRST AID MEASURES

### If inhaled

If breathed in, move person into fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

### In case of skin contact

Take off all contaminated clothing immediately. If on skin, rinse well with water. If skin irritation or rash occurs: Get medical advice/ attention

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. If eye irritation persists: Get medical advice/ attention.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2 or section 11)

**Indication of any immediate medical attention and special treatment needed**

No data available

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**SECTION 5. FIRE-FIGHTING MEASURES****Extinguishing media Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen bromide gas

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

No data available

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**SECTION 6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Wash hands and face thoroughly after handling.

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

For precautions see section 2.

### **Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Store in a cool and shaded area. Protect from moisture. Keep under inert gas.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **Personal protective equipment**

|                          |                               |
|--------------------------|-------------------------------|
| Respiratory protection   | : Dust mask                   |
| Hand protection          | : Protective gloves           |
| Eye protection           | : Safety glasses, Face-shield |
| Skin and body protection | : Protective suit             |

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                              |                                       |
|------------------------------|---------------------------------------|
| Appearance                   | : Solid form (powder/crystals)        |
| Color                        | : white                               |
| Odor                         | : no data available                   |
| Odor Threshold               | : no data available                   |
| pH                           | : no data available                   |
| Melting point                | : 275 °F / 135 °C; Decomposition: yes |
| Boiling point/range          | : no data available                   |
| Flash point                  | : no data available                   |
| Evaporation rate             | : no data available                   |
| Flammability                 | : no data available                   |
| Upper/lower flammability     | : no data available                   |
| Explosive limits             | : no data available                   |
| Vapor pressure               | : no data available                   |
| Vapor density                | : no data available                   |
| Relative density             | : no data available                   |
| Solubility(ies)              |                                       |
| Water solubility             | : soluble                             |
| Solubility in other solvents | :                                     |
| soluble                      | : dimethylformamide                   |
| Partition coefficient        | : no data available                   |
| Auto-ignition temperature    | : no data available                   |
| Decomposition Temp           | : no data available                   |
| log Pow                      | : no data available                   |
| Viscosity                    | : no data available                   |

Oxidizing properties : no data available  
Molecular weight : 124.97 g/mol

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : None under normal processing.  
Conditions to avoid : Exposure to air. Exposure to moisture.  
Incompatible materials : Oxidizing agents  
Hazardous decomposition products : Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Hydrogen bromide

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Oral : No data available  
Inhalation : No data available  
Dermal : No data available

### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

### Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

No data available

### Specific target organ toxicity - repeated exposure

No data available

### Aspiration hazard

No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential :

Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602  
Class I Substances

Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by  
the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A,  
App.A + B).

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied

### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

This product does not contain any priority pollutants related to the U.S. Clean Water Act.

**US State Regulations****Massachusetts Right to Know**

No components are subject to the Massachusetts Right to Know Act

**Maine Chemicals of High Concern**

Product does not contain any listed chemicals

**Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

**Washington Chemicals of High Concern**

Product does not contain any listed chemicals

**California Prop. 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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**SECTION 16. OTHER INFORMATION**

The information was prepared sincerely based on the information obtained and is believed to be correct but is not exhaustive and will be used solely as a guideline. It does not represent any guarantee of the properties of the product. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility. PY Materials, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.