



catapowerinc.com

Safety Data Sheet

Version 1.1

Revision date: 2 May 2023

Section 1: Identification

1.1 Product identifier

Product name: (1,5-cyclooctadiene)[3-methyl-1-[(2-pyridyl)methyl]-imidazol-2-ylidene] iridium(I) triflate
Other names: Iridium(1+), [(1,2,5,6-η)-1,5-cyclooctadiene][1,3-dihydro-1-methyl-3-[(2-pyridinyl-κN)methyl]-2H-imidazol-2-yl-κC]-, 1,1,1-trifluoromethanesulfonate
Product code: 02-02-0011
CAS number: 1883459-62-8

1.2 Relevant uses

Recommended use: Laboratory use only

1.3 Supplier details

Manufacturer: Catapower, Inc.
2265 E. Foothill Blvd.
Pasadena, CA 91107
info@catapowerinc.com
Phone: (626) 657-0386

1.4 Emergency telephone number

Emergency phone: (800) 424-9300
CHEMTREC is available at the number above 24 hours/day, 7 days/week.

Section 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Hazard classifications for this substance are unknown.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H303 + H333 May be harmful if swallowed or inhaled.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

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

P280 Wear protective gloves/ eye protection/ face protection.

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

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes.

+ P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P330 Rinse mouth.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified

Additional hazards for this substance are unknown.

Section 3: Composition/information on ingredients

3.1 Substances

Synonyms	(1,5-Cyclooctadiene)[3-methyl-1-[(2-pyridyl)methyl]-imidazol-2-ylidene] iridium(I) triflate, Iridium(1+), [(1,2,5,6-η)-1,5-cyclooctadiene][1,3-dihydro-1-methyl-3-[(2-pyridinyl-κN)methyl]-2H-imidazol-2-yl-κC]-, 1,1,1-trifluoromethanesulfonate
Formula	C ₁₉ H ₂₃ F ₃ IrN ₃ O ₃ S
Molecular weight	622.68 g / mol
CAS number	1883459-62-8

Section 4: First aid measures

4.1 Description of necessary first-aid instructions

General guidance:	Move away from the dangerous area. Consult a qualified medical professional and present this safety data sheet.
If inhaled:	Move the affected person to fresh air. Provide artificial respiration if not breathing. Consult a qualified medical professional.
In case of skin contact:	Wash the affected area with soap and water. Consult a qualified medical professional.
In case of eye contact:	Flush the affected eye with water for 15 minutes. Consult a qualified medical professional.
If swallowed:	Do not induce vomiting. Rinse the mouth with water. Consult a qualified medical professional.

4.2 Most important symptoms/effects

No data available.

4.3 Indication of immediate medical attention and special treatment needed

No data available.

Section 5: Firefighting measures

5.1 Suitable extinguishing media

Use dry chemical, dry sand, or carbon dioxide to extinguish.

5.2 Specific hazards arising from the chemical

Combustion may release carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, hydrogen fluoride, and iridium oxides.

5.3 Recommendations for firefighters

Combustion may release highly toxic hydrogen fluoride (HF) gas. Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment as recommended in Section 8. Avoid breathing dust. Ensure adequate ventilation. In the event of an emergency, evacuate to a safe location.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Solid material may be swept. Temporarily store in a suitable container. Dispose of the material in accordance with local regulations as described in Section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment as recommended in Section 8. Avoid breathing aerosol. Avoid contact with skin, eyes, and clothing. Avoid ingestion. Take precautions to prevent the formation and accumulation of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly sealed in a dry location. Material is air sensitive; recommended storage is under inert atmosphere. Storage class 4.1B (flammable solid materials).

Section 8: Exposure controls / personal protection

8.1 Control parameters

Components with workplace control parameters

No data available.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

For full or incidental contact, nitrile gloves with a minimum layer thickness of 0.11 mm are recommended.

Body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

When a risk assessment indicates respiratory protection is required, use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Red-orange solid
Odor:	No data available
Odor threshold:	No data available
pH:	No data available
Melting/freezing point:	No data available
Initial boiling point and range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility:	No data available
Partition coefficient, n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive Properties:	No data available

Section 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under the recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Flames and sparks

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products.

Fire-induced decomposition may release carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, hydrogen fluoride, and iridium oxides. Hydrogen fluoride is toxic. See Section 5 for additional firefighting information.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

No data available

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

Section 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulation potential

No data available

12.4 Mobility in soil

No data available

12.6 Other adverse effects

No data available

Section 13: Disposal considerations

13.1 Waste disposal methods

Must not be disposed in household garbage or in sewer. Dispose of excess product in appropriate containers with a licensed disposal company in accordance with all relevant regulations.

13.2 Contaminated packaging

Contaminated packaging should be discarded in the same manner as excess product.

Section 14: Transport information

DOT (US)

Non-hazardous for transportation

IATA

Non-hazardous for transportation

IMDG

Non-hazardous for transportation

Section 15: Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture SARA 302 components

Not listed

SARA 313 components

Not listed

SARA 311/312 Hazards

Not listed

Massachusetts Right To Know components

Not listed

California Prop. 65 components

Not listed

Section 16: Other information

16.1 Disclaimer

This information supplied in this document is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Users should make their own investigation to determine the suitability of this information for their particular purposes.

16.2 NFPA ratings



Health = 2

Fire = 0

Reactivity = 0

Special hazards = none applicable

16.2 HMIS ratings

Health = 2

Fire = 0

Reactivity = 0

Personal protection = class C (safety glasses, gloves, and apron)