

SAFETY DATA SHEETGyros Protein Technologies
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Fax: (520) 629-9806**1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY****Identification of the product****Catalog numbers:** ACT-25-PYC, ACT-100-PYC, ACT-1K-PYC**Product name:** PyClock**Alternate Name:** 6-Chloro-benzotriazole-1-yloxy-tris-pyrrolidinophosphonium hexafluorophosphate**Chemical Family:** Activator**Recommended Use:****2. HAZARDS IDENTIFICATION****Emergency Overview:** Caution! Not yet fully tested. Risks cannot be excluded if the product is handled inappropriately.**3. COMPOSITION/INFORMATION ON INGREDIENTS****Synonyms** N-[(5-Chloro-3-oxido-1H-benzotriazol-1-yl)-4-morpholinylmethylene]-N methylmethanaminium hexafluorophosphate

Components	CAS #	Chemical Formula	Molecular Weight
PyClock	893413-42-8	C ₁₈ H ₂₇ ClN ₆ OP ₂ F ₆	554.1 g/mol

4. FIRST AID MEASURES**Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact:

- Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes
- Cold water may be used
- Do not apply neutralizing agents
- Get medical attention immediately

Skin Contact:

- In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes
- Cover the irritated skin with an emollient
- Cold water may be used
- Wash clothing before reuse. Thoroughly clean shoes before reuse.
- Get medical attention immediately

Inhalation:

- If inhaled, move to fresh air. If not breathing, give artificial respiration
- If breathing is difficult, give oxygen
- Get medical attention immediately

Ingestion:

- If swallowed, do not induce vomiting unless directed to do so by medical personnel
- Never give anything by mouth to an unconscious person
- Loosen tight clothing such as a collar, tie, belt or waistband
- Rinse mouth with water
- Get medical attention immediately

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

Extinguishing media**Suitable extinguishing media**

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

Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides, oxides of phosphorus, hydrogen fluoride, hydrogen chloride gas

Special Protection Equipment for Firefighters

Compressed air/oxygen apparatus

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. 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

Sweep up and shovel. Keep in suitable, closed containers for disposal

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Observe label precautions. Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8 °C

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection

Required when dusts are generated.

The researcher should ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures should be properly documented.

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance:	Solid, white
Odor:	N/A
Boiling Point:	N/A
Melting Point:	165-175°C
Vapor Pressure (kPa/25°C):	N/A
Vapor Density (Air = 1):	N/A
Specific Gravity:	N/A
pH Value:	N/A
Flashpoint:	N/A
Auto-Ignition Point:	N/A
Explosion Limits:	N/A
Water Solubility:	N/A
Viscosity:	N/A

10. STABILITY AND REACTIVITY

Stability

Stable under standard ambient conditions (room temperature)

Reactivity/ Hazardous Decompositions Products:

Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides, oxides of phosphorus, hydrogen fluoride, hydrogen chloride gasChemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents. Generates dangerous gases or fumes in contact with: Acids

Conditions to avoid

Strong oxidizing agents, strong acids, strong bases

Caution! with nitrites, nitrates, nitrous acid Hazardous decomposition products

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

LD50 Oral Rat: NA

LD50 Dermal Rabbit: NA

LC50 Inhalation Rat: NA

Chronic Toxicity:

Carcinogenicity (TLV): NA

IARC Classification: NA

Routes of Exposure:

Ingestion, inhalation, eyes and skin. Substance is absorbed through the skin

12. ECOLOGICAL INFORMATION

Persistence and degradability: No data available

Bio-accumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: Discharge into the environment must be avoid

13. DISPOSAL CONSIDERATIONS

EPA Waste Number: N/A

Treatment: Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

14. TRANSPORT INFORMATION

Proper Shipping Name: PyClock

Transport by Road/Rail (ADR/RID): Not subject to transport regulations

UN-Number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG: no IATA: no

Special precautions for users

no data available

15. REGULATORY INFORMATION

OSHA: NA

SARA 302 Components: NA

SARA 313 Components: PyClock is not subject to reporting levels

SARA 311/312 Hazards: NA

California Prop. 65 Component: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

The information contained herein is based on the present state of our knowledge. It characterizes the product with regards to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

*Note: Since other Agencies regulate this information, OSHA will not be enforcing Sections 12 through 15(29 CFR 1910.1200(g)(2)).

The information accumulated herein is believed to be accurate but is not warranted to be whether origination with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Gyros Protein Technologies.