

# Safety data sheet

## according to Regulation (EC) No. 1907/2006



Printing date 05.10.2012

Version number 1

Revision: 05.10.2012

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

- **Product identifier**

- **Trade name:** PyClock

- **Article number:** 2123

- **CAS Number:**  
893413-42-8

- **Registration number**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

- **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

- **Application of the substance / the preparation** Laboratory chemical

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

Carl Roth GmbH + Co. KG  
Schoemperlenstraße 3-5  
76185 Karlsruhe  
Germany

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

E-Mail: [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

- **Further information obtainable from:** Department Health, Safety and Environment

- **Emergency telephone number:** Poison Centre Munich

Telefon +49/(0)89 19240

### 2 Hazards identification

- **Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008** Void

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- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void

- **Information concerning particular hazards for human and environment:**

No hazardous product as specified in Directive 67/548/EEC.

- **Classification system:**

This product is not hazardous according to EEC directives 67/548/EEC / 1999/45/EC or regulation (EC) No 1272/2008.

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- **Label elements**

- **Labelling according to Regulation (EC) No 1272/2008** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

- **Other hazards**

All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Substances

- **CAS No. Description**

893413-42-8 6-Chloro-benzotriazole-1-yl-oxy-tris-pyrrolidinophosphonium  
hexafluorophosphate

- **Identification number(s)**

- **Formula:** C<sub>18</sub>H<sub>27</sub>ClF<sub>6</sub>N<sub>6</sub>OP<sub>2</sub>

(Contd. on page 2)

Trade name: PyClock

(Contd. of page 1)

· Molar mass [g/mol]: 554,84

#### 4 First aid measures



- **Description of first aid measures**

- **General information:**

General advice: No induce of vomiting by layman.  
Remove any clothing soiled by the product.

- **After inhalation:** Supply fresh air; if there is any trouble seek medical help.

- **After skin contact:**

Rinse with water  
If skin irritation continues, consult a doctor.

- **After eye contact:**

To be sure rinse opened eye under running water. If there is any trouble seek medical help.

- **After swallowing:**

Rinse out mouth and drink a glass of water. Do not induce vomiting.  
If there is any trouble seek medical help.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

#### 5 Firefighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.  
CO<sub>2</sub>, powder, foam.

- **For safety reasons unsuitable extinguishing agents:**

For this substance/mixture no limitations of extinguishing agents are given.

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

In the event of fire development of hazardous combustion gases or vapours possible.

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen chloride (HCl)

Hydrogen fluoride (HF)

Phosphorus oxides.

Carbon monoxide and carbon dioxide

- **Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Avoid formation of dust.

- **Environmental precautions:** Do not allow to enter sewers/ground water or penetrate the soil.

- **Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose of the material collected according to regulations.

(Contd. on page 3)

# Safety data sheet

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**Trade name: PyClock**

(Contd. of page 2)

- **Reference to other sections**
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Recommended storage temperature:** 2-8 °C
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- **Individual protection measures**
- Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.
- **Respiratory protection:**



Required when dusts are generated: filter P1.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Nitrile, thickness: > 0.11 mm

(Contd. on page 4)

# Safety data sheet

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**Trade name: PyClock**

(Contd. of page 3)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

Value for the permeation: Level  $\geq 6$

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Solid

Colour: White

- **Odour:** No information available.

- **Odour threshold:** No information available.

- **pH-value:** No information available.

- **Change in condition**

Melting point/Melting range: No information available.

Boiling point/Boiling range: No information available.

- **Flash point:** No information available

- **Flammability (solid, gaseous):** No information available

- **Ignition temperature:** No information available

- **Decomposition temperature:** No information available

- **Self-igniting:** No information available

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower: No information available.

Upper: No information available.

- **Oxidizing properties:** No information available.

- **Vapour pressure:** No information available

- **Density:** No information available.

- **Relative density** No Information available.

- **Vapour density** No information available

- **Evaporation rate** No information available

- **Solubility in / Miscibility with**

water: No information available.

- **Partition coefficient (n-octanol/water):** No information available

- **Viscosity:**

Dynamic: No information available.

(Contd. on page 5)



Trade name: PyClock

(Contd. of page 4)

<ul style="list-style-type: none"> <li>· <b>Kinematic:</b></li> <li>· <b>Other information</b></li> </ul>	<p>No information available.</p> <p>No further relevant information available.</p>
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## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No information available.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong oxidizing agents, acids.
- **Hazardous decomposition products:** In case of fire: see item 5.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** Quantitative data on the toxicity of this product are not available.
- **Specific symptoms in biological assay:** No information available.
- **Primary irritant effect:**
- **on the skin:** No information available.
- **on the eye:** No information available.
- **after inhalation:** No information available.
- **Sensitization:** No sensitizing effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** No information available
- **Aspiration hazard:** No information available.
- **Specific target organ toxicity - single exposure**  
The substance or mixture is not classified as specific target organ toxicant, single exposure.
- **Specific target organ toxicity - repeated exposure**  
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.  
We have no description of any toxic symptoms.
- **Further information:** The product should be handled with the care usual when dealing with chemicals.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Do not allow to enter waters, waste water, or soil!
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

(Contd. on page 6)

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(Contd. of page 5)

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.
- **Uncleaned packaging:**
- **Recommendation:** Disposal according to official regulations.

## 14 Transport information

· UN-Number	Void
· ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	Void
· ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	-

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Information about limitation of use:** In dealing with chemicals the national laws must be observed.
- **Waterhazard class:** Generally not hazardous for water (German regulation).
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information 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.

- **Department issuing MSDS:** Department: Health, Safety and Environment
- **Contact:** Herr Heine
- **Abbreviations and acronyms:**  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
- **\* Data compared to the previous version altered.**