

	Revision Date	07.07.2010
1. Identification of the substance/m Product Information	nixture and of the company/undertaking	
Catalogue No.:	851087	
Product name:	PyClock 6-Chloro-benzotriazole-1-yloxy-tris-pyrrolidinophosphonium hexafluorophosphate	
Use of the Substance/Mixture	Chemical for synthesis	
Company: Emergency telephone: Responsible/issuing person:	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0 Please contact the regional company representation in your country. LS-QHC * e-mail: prodsafe@merckgroup.com	

#### 2. Hazards identification

This substance is not classified as dangerous according to European Union legislation.

Formula	C18H27CIF6N6OP2 (Hill)
CAS-No.	893413-42-8
Molar mass	554,84 g/mol

#### 4. First aid measures

After inhalation: fresh air. Consult doctor if feeling unwell.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing: immediately make victim drink water (two glasses at the most). Consult a physician.

#### 5. Fire-fighting measures

*Suitable extinguishing media* Carbon dioxide (CO2), Dry powder, Foam

Specific hazards during fire fighting

Combustible material, Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of:

Hydrogen fluoride, nitrogen oxides, Oxides of phosphorus, Hydrogen chloride gas

Special protective equipment for fire-fighters

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

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

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	hexafluorophosphate

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### 6. Accidental release measures

## *Personal precautions* Avoid substance contact. Avoid generation of dusts; do not inhale dusts. Ensure adequate ventilation.

*Environmental precautions* Do not empty into drains.

*Methods for cleaning up* Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

#### 7. Handling and storage

#### Handling

*Advice on safe handling* Observe label precautions.

#### Storage

*Further information on storage conditions* Tightly closed. Dry.

Store at +2°C to +8°C.

#### 8. Exposure controls/personal protection

### Personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

#### Respiratory protection

required when dusts are generated. Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances

#### Hand protection

full contact:		
	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min
splash contact:		
	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC irective 89/686/EEC and he resultant standard EN374, for example. KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

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This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CEapproved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Eye protection Safety glasses

Protective measures Protective suit

#### Hygiene measures

Change contaminated clothing. Application of skin- protective barrier cream recommended. Wash hands after working with substance.

9. F	Physical and chemical properties	
	Form	crystalline
	Colour	off-white
	рН	no data available
	Viscosity, dynamic	no data available
	Melting point	165 - 175 °C
	Boiling point	no data available
	Ignition temperature	no data available
	Flash point	no data available
	Oxidizing properties	no data available
	Flammability	no data available
	Lower explosion limit	no data available
	Upper explosion limit	no data available
	Vapour pressure	no data available
	Relative vapour density	no data available
	Density	no data available
	Solubility/qualitative	no data available
	Water solubility	no data available
	Partition coefficient: n- octanol/water	no data available
	Evaporation rate	no data available

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#### 10. Stability and reactivity

*Conditions to avoid* no information available

*Materials to avoid* Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitosamines!

Violent reactions possible with:

Strong oxidizing agents, Acids, Bases

*Hazardous decomposition products* in the event of fire: See chapter 5.

#### Further information

The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

#### 11. Toxicological information

#### Further information

Quantitative data on the toxicity of this product are not available.

Further toxicological data:

Hazardous properties cannot be excluded.

Other information

Handle in accordance with good industrial hygiene and safety practice.

#### 12. Ecological information

Additional ecological information

Ecotoxicity effects

We have no quantitative data concerning the ecological effects of this product.

Further information on ecology

Do not allow to enter waters, waste water, or soil!

#### 13. Disposal considerations

#### Product

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

#### Packaging

Merck product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

#### 14. Transport information

Not classified as dangerous in the meaning of transport regulations.

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15. Regulatory information	
GHS-Labelling	
Not a dangerous substance	according to GHS.
CAS-No.	893413-42-8
Labelling according to EC I The test results available so the product is handled inap	o far do not permit a complete evaluation. Risks cannot be excluded if
Further information Caution - substance not ye	t fully tested.
National legislation Storage class VCI:	10 - 13 Other liquids and solids
Major Accident Hazard Legislation:	96/82/EC Update: 2003 Directive 96/82/EC does not apply
16. Other information	
Regional representation:	This information is given on the authorised Safety Data Sheet for your country.

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