

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
Printdate 23 Jun 2023

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product name:

D4-Cyromazine

#### 1.1. Catalog No.:

677614

#### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical  
uses: R&D

#### 1.3. Uses advised against:

HPC Standards GmbH  
Am Wieseneck 7

04451 Cunnersdorf  
Deutschland

Tel. +49 34291 3372-36  
Fax. +49 34291 3372-39  
contact@hpc-standards.com

#### 1.4. Emergency telephone number

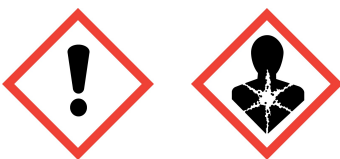
HPC Standards Tel. +49 34291 3372-36  
This number is only available during office hours.

### 2. HAZARDS IDENTIFICATION

· 2.1 Classification of the substance or mixture  
· Classification according to Regulation (EC) No 1272/2008  
health hazard  
Repr. 2 H361d Suspected of damaging the unborn child.  
Acute Tox. 4 H332 Harmful if inhaled.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H335 May cause respiratory irritation.

#### 2.2. Label elements

##### 2.2.1. Pictogram



##### 2.2.2.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008  
The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms  
GHS07 GHS08
- Signal word Warning
- Hazard statements  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H361d Suspected of damaging the unborn child.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see on this label).  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances
- CAS No. Description  
1219804-19-9 Cyromazine D4 (cyclopropyl-2,2,3,3 D4)
- Identification number(s) None
- RTECS: -
- Additional information:  
For the wording of the listed hazard phrases refer to section 16.  
This product has been isotopically labelled with deuterium, a stable isotope of hydrogen.

#### 3.1.1. Formula

C<sub>6</sub>H<sub>6</sub>D<sub>4</sub>N<sub>6</sub>

#### 3.1.2. Molecular Weight (g/mol)

170.21

### 3.1.3. CAS-No.

1219804-19-9

## 4. FIRST AID MEASURES

### · 4.1 Description of first aid measures

#### · General information:

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

#### · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient in recovery position for transport.

Seek medical treatment.

#### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### · After swallowing: Rinse mouth. Do not induce vomiting.

· 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

## 5. FIRE-FIGHTING MEASURES

### · 5.1 Extinguishing media

· Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.

### · 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

### · 5.3 Advice for firefighters

#### · Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

## 6. ACCIDENTAL RELEASE MEASURES

· 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.

### · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

### · 6.3 Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

### · 6.4 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

- 7.1 Precautions for safe handling  
Ensure good ventilation/extraction at the workplace.  
Remove dust thoroughly.  
Store in cool, dry place in tightly closed receptacles.
- Information about fire - and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles:  
Please refer to the manufacturers certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
  - Information about storage in one common storage facility: Store away from foodstuffs.
  - Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: Lists used were valid at the time of SDS preparation.
- 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as 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.
- Respiratory protection:  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Hand protection  
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  
The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374  
Protective gloves  
Material of gloves Butyl rubber, BR
- Penetration time of glove material  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye/face protection  
Tightly sealed goggles

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties
- General Information
- Physical state Solid
- Colour: Off white
- Odour: Odourless
- Odour threshold: Not determined.
- Melting point/freezing point: 201-203 °C
- Boiling point or initial boiling point and boiling range Not determined.
- Flammability Not determined.
- Lower and upper explosion limit
- Lower: Not determined.

- Upper: Not determined.
- Flash point: Not applicable.
- Auto-ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- pH Not applicable.
- Viscosity:
- Kinematic viscosity Not applicable.
- Dynamic: Not applicable.
- Solubility DMSO, Methanol
- water: Not determined.
- Partition coefficient n-octanol/water (log value) Not determined.
- Vapour pressure: Not applicable.
- Density and/or relative density
- Density: Not determined.
- Relative density Not determined.
- Vapour density Not applicable.
- 9.2 Other information
- Appearance:
- Form: Crystalline
- Important information on protection of health and environment, and on safety.
- Ignition temperature: Not determined
- Explosive properties: Not determined.
- Change in condition
- Evaporation rate Not applicable.
- Information with regard to physical hazard classes
- Explosives Not applicable
- Flammable gases Not applicable
- Aerosols Not applicable
- Oxidising gases Not applicable
- Gases under pressure Not applicable
- Flammable liquids Not applicable
- Flammable solids Not applicable
- Self-reactive substances and mixtures Not applicable
- Pyrophoric liquids Not applicable
- Pyrophoric solids Not applicable
- Self-heating substances and mixtures Not applicable
- Substances and mixtures, which emit flammable gases in contact with water Not applicable
- Oxidising liquids Not applicable
- Oxidising solids Not applicable
- Organic peroxides Not applicable
- Corrosive to metals Not applicable
- Desensitised explosives Not applicable

## 10. STABILITY AND REACTIVITY

- 10.1 Reactivity  
Stable under normal conditions.  
No further relevant information available.
- 10.2 Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:  
Formation of toxic gases is possible during heating or in case of fire.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid Heat.
- 10.5 Incompatible materials: Strong oxidizing agents.
- 10.6 Hazardous decomposition products:  
Formation of toxic gases is possible during heating or in case of fire.

## 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Harmful if inhaled
- LD/LC50 values relevant for classification:  
CAS: 66215-27-8 Cyromazine  
Oral LD50 3,387 mg/kg (rat)  
Dermal LD50 >3,100 mg/kg (rat)  
Inhalative LC50/4 h >2.72 mg/l (rat)
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Reproductive toxicity Suspected of damaging the unborn child.
- STOT-single exposure May cause respiratory irritation.
- Additional toxicological information:  
· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)  
Repr. 2
- 11.2 Information on other hazards
- Endocrine disrupting properties Substance is not listed.

## 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
- Aquatic toxicity:  
CAS: 66215-27-8 Cyromazine  
LC50/48 >9.1 mg/l (daphnia)  
LC50/96 h >100 mg/l (fish)
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties  
The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Remark: Harmful to fish
- Additional ecological information:  
· General notes:  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to aquatic organisms

## 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods
- Recommendation  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:  
· Recommendation: Dispose of in accordance with national regulations.

#### 14. TRANSPORT INFORMATION

- 14.1 UN number or ID number
- ADR, IMDG, IATA Not applicable
- ADR, IMDG, IATA Not applicable
- 14.3 Transport hazard class(es)
- ADR, ADN, IMDG, IATA
- Class Not applicable
- 14.4 Packing group
- ADR, IMDG, IATA Not applicable
- 14.5 Environmental hazards: Not applicable.
- 14.6 Special precautions for user Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.
- UN "Model Regulation": Not applicable

#### 15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!