

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Coelenterazine [native-CTZ]

Name	Order No.	Amount	Symbol
Coelenterazine	102171	1mg	---
Nativ. (synthetic)	102172	5mg	---
	102173	10mg	---

## Coelenterazine High Pure [native-CTZ] HPLC- purified

Name	Order No.	Amount	Symbol
Coelenterazine	102174	1mg	---
Nativ. (synthetic)	102175	5mg	---
	102176	10mg	---

PJK GmbH

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

**Product Identifier:**

**Trade name:** *Coelenterazine*

**Article number:** 102171/102172/102173/102174/102175/102176

**Application of the substance / the preparation**

Laboratory Chemicals

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

**Manufacturer/Supplier:**

PJK GmbH

Elseasser Strasse 51

66271 Kleinblittersdorf

Germany

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**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**

The substance is not classified according to the CLP regulation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable**

**Information concerning particular hazards for human and environment:** not applicable

**Classification system:**

The classification is according to the latest editions of the EU-lists, and expanded upon by technical literature/ supplier company information.

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

**Label elements**

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

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

**Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals

The substance is not subject to classification according to EU lists and other sources of literature known to us.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical characterization: Substances**

**CAS No. Description:** 55779-48-1 coelenterazine

## 4. FIRST AID MEASURES

**Description of first aid measures**

**General information:** No special measures required.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** If symptoms persist consult doctor.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed** None

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

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**TRADE NAME: COELENTERAZINE**

*No further relevant information available.*

## 5. FIREFIGHTING MEASURES

**Extinguishing media**

**Suitable extinguishing agents:**

*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*

**Special hazards arising from the substance or mixture** *None known*

**Advice for firefighters** *No special advice.*

**Protective equipment:** *No special measures required*

## 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** *Not required.*

**Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*

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

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)*

*No dangerous substances are released.*

## 7 HANDLING AND STORAGE

**Handling**

**Precautions for safe handling** *No special measures required.*

**Information about fire - and explosion protection:** *The product is not flammable*

**Conditions for safe storage, including any incompatibilities**

**Storage** *-20°C/-80°C, avoid contact to air*

**Requirements to be met by storerooms and receptacles:** *No special requirements.*

**Information about storage in one common storage facility:** *Not required.*

**Further information about storage conditions:** *None.*

**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**

*The usual precautionary measures are to be adhered to when handling chemicals.*

**Respiratory protection:** *Not required.*

**Protection of hands:**

*Protective gloves.*

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

**Material of gloves:**

*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:**

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

**Eye protection:** *Goggles recommended during refilling.*

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**General Information**

**Appearance:**

**Form:** *yellow powder*

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**TRADE NAME: COELENTERAZINE**

**Color:** yellow

**Odor:** Characteristic

**Odour threshold:** Not determined.

**pH-value at 20°C (68 °F):** Not determined

**Change in condition**

**Melting point/Melting range:** 130°C

**Boiling point/Boiling range:** Undetermined.

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:**

**Decomposition temperature:** Not determined.

**Auto igniting:** Product is not selfigniting.

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

**Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

**Vapor pressure:** Not determined.

**Density:** Not determined.

**Relative density** Not determined.

**Vapour density** Not determined.

**Evaporation rate** Not determined.

**Solubility in / Miscibility with**

**Water:** Not miscible or difficult to mix.

**Segregation coefficient (n-octanol/water):** Not determined.

**Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Solvent content:**

**Organic solvents:** 0.0 %

**Water:** 0%

**Other information** No further relevant information available.

## 10. STABILITY AND REACTIVITY

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

**LD/LC50 values that are relevant for classification:** No data available

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

**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.

The substance is not subject to classification according to the latest version of the EU lists.

## 12. ECOLOGICAL INFORMATION

**Toxicity**

**Aquatic toxicity:** Not harmful to the aquatic environment

**Persistence and degradability** Not available

**Behaviour in environmental systems:**

**Bioaccumulative potential** Not known

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**Mobility in soil** No further relevant information available.

**Ecotoxicological effects:**

**Remark:** Not available

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Recommendation**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

**DOT regulations:** Not regulated

**Hazard class:** -

**Land transport ADR/RID (cross-border):** Not regulated

**DOT regulations:** Not regulated

**Hazard class:** -

**Land transport ADR/RID (cross-border):** Not regulated

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

**Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**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. PJK shall not be held liable for any damage resulting from handling or from contact with the above product.

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