

# Safety Data Sheet

According to EC Directive 91/155/EEC

Date of issue: 15.10.2003  
Supersedes edition of 12.10.1998

## 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the product

Catalogue No.: 814689  
Product name: Platinum(II) acetylacetonate (50% Pt) catalyst for synthesis

### Use of the substance/preparation

Chemical for synthesis  
Catalyser

### Company/undertaking identification

Company: Merck Schuchardt OHG \* 85662 Hohenbrunn \* Germany \*  
Tel: +49 8102/802-0  
Emergency telephone No.: Please contact the regional Merck representation  
in your country.

## 2. Composition/information on ingredients

### Synonyms

Platinum bis(acetylacetonate), Bis(acetylacetonato) platinum

CAS-No.: 15170-57-7  
M: 393.30 g/mol  
Formula Hill:  $C_{10}H_{14}O_4Pt$   
EC-No.: 239-223-5

## 3. Hazards identification

Harmful if swallowed.

## 4. First aid measures

After inhalation: fresh air.  
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.  
After swallowing: make victim drink plenty of water, induce vomiting, call in physician.

## 5. Fire-fighting measures

Suitable extinguishing media:  
In adaption to materials stored in the immediate neighbourhood.

Special risks:  
Non-combustible. Ambient fire may liberate hazardous vapours.

Special protective equipment for fire fighting:  
Do not stay in dangerous zone without self-contained breathing apparatus.

Other information:  
Prevent fire-fighting water from entering surface water or groundwater.

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## 6. Accidental release measures

Person-related precautionary measures:  
Avoid generation of dusts; do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Environmental-protection measures:  
Do not allow to enter sewerage system.

Procedures for cleaning / absorption:  
Take up dry. Forward for recycling. Clean up affected area.

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## 7. Handling and storage

*Handling:*

No further requirements.

*Storage:*

Tightly closed. Dry. At +15°C to +25°C.

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## 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.

Eye protection: required

Hand protection: In full contact:  
Glove material: nitrile rubber  
Layer thickness: 0.11 mm  
Breakthrough time: > 480 Min.  
  
In splash contact:  
Glove material: nitrile rubber  
Layer thickness: 0.11 mm  
Breakthrough time: > 480 Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example KCL 740 Dermatril® (full contact), 740 Dermatril® (splash contact). The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

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 CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Industrial hygiene:

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

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## 9. Physical and chemical properties

Form:	crystals
Colour:	yellow
Odour:	
pH value	not available
Melting point	250-252 °C
Boiling point	not available
Ignition temperature	not available
Flash point	not available
Explosion limits	lower not available upper not available
Density	not available
Solubility in	
water	(20 °C) insoluble
diluted acids	(20 °C) soluble
Thermal decomposition	420 °C

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## 10. Stability and reactivity

### *Conditions to be avoided*

no information available

### *Substances to be avoided*

organic substances, strong oxidizing agents.

### *Hazardous decomposition products*

no information available

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## 11. Toxicological information

### *Acute toxicity*

LD<sub>50</sub> (oral, rat): >500 mg/kg.

### *Further toxicological information*

Platinum compounds are generally highly toxic, even though the rate of absorption via the gastrointestinal tract is relatively poor. Symptoms of platinum intoxication are hepatic and renal damage, impaired hearing, and severe sensitization with allergic manifestations in predisposed persons (rhinitis, asthmatic attacks, urticaria). Platinum is not known to play a physiological role.

### *Further data*

Further hazardous properties cannot be excluded.  
The product should be handled with the care usual when dealing with chemicals.

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## 12. Ecological information

Ecotoxic effects:  
Quantitative data on the ecological effect of this product are not available.

Further ecologic data:  
Do not allow to enter waters, waste water, or soil!

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## 13. Disposal considerations

### *Product:*

Chemicals must be disposed of in compliance with the respective national regulations. Under [www.retrologistik.de](http://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](http://www.retrologistik.de) you will find special information on the respective national conditions as well as contact partners.

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## 14. Transport information

Not subject to transport regulations.

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## 15. Regulatory information

### *Labelling according to EC Directives*

Symbol:	Xn	Harmful
R-phrases:	22	Harmful if swallowed.
S-phrases:	17-22	Keep away from combustible material. Do not breathe dust.

### *Reduced labelling (1999/45/EC, Art. 10,4)*

Symbol:	Xn	Harmful
R-phrases:	22	Harmful if swallowed.
S-phrases:	---	

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## 16. Other information

### *Reason for alteration*

Chapter 4: first aid measures.  
Chapter 5: fire-fighting measures.  
Chapter 8: personal protective equipment.  
Chapter 11: toxicological information.  
Chapter 15: labelling.

General update.

### *Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.

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*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.*