

Creation Date 19-Oct-2010

Revision Date 27-Jan-2011

Revision Number 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Description:** 1,2-Bis((2S,5S)-2,5-diethylphospholano)benzene(cyclooctadiene)rhodium(I) tetrafluoroborate

**Cat No.** 435190000; 435191000; 435192500

### Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Laboratory chemicals

**Uses advised against** No Information available

### Details of the supplier of the safety data sheet

#### **Company**

Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

**E-mail address** begel.sdsdesk@thermofisher.com

#### **Emergency Telephone Number**

For information in the US, call: 001-800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300

CHEMTREC Phone Number, Europe: 001-703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

**REGULATION (EC) No 1272/2008**

Not hazardous

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

*For the full text of the R phrases mentioned in this Section, see Section 16*

**R -phrase(s)** none

### Label Elements

**Signal Word** None

**Hazard Statements**

### Other Hazards

No information available.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
1,2-Bis((2R,5R)-2,5-diisopropylphospholano)benzene(cyclooctadiene)rhodium(I) tetrafluoroborate 213343-64-7		>95	213343-64-7	-	-	-

**For the full text of the R phrases mentioned in this Section, see Section 16**

### 4. FIRST AID MEASURES

**Description of first aid measures**
**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Obtain medical attention

**Skin Contact**

Wash off immediately with plenty of water for at least 15 minutes Get medical attention immediately if symptoms occur

**Ingestion**

Do not induce vomiting Obtain medical attention

**Inhalation**

Move to fresh air If breathing is difficult, give oxygen Get medical attention immediately if symptoms occur

**Notes to Physician**

Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media**
**Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**Extinguishing media which must not be used for safety reasons**

No information available.

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

Thermal decomposition can lead to release of irritating gases and vapors

**Advice for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Thermal decomposition can lead to release of irritating gases and vapors

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**  
 Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

**Environmental precautions**  
 Should not be released into the environment.

**Methods and material for containment and cleaning up**  
 Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

**7. HANDLING AND STORAGE**

**Precautions for Safe Handling**  
 Wear personal protective equipment Ensure adequate ventilation Avoid contact with skin, eyes and clothing Avoid ingestion and inhalation Avoid dust formation Handle under inert gas, protect from moisture Wash hands before breaks and immediately after handling the product

**Conditions for safe storage, including any incompatibilities**  
 Keep containers tightly closed in a dry, cool and well-ventilated place Store under an inert atmosphere

**Specific End Uses**

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**  
**Exposure limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** No information available.  
**Predicted No Effect Concentration (PNEC)** No information available.

**Exposure controls**  
**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location Ensure adequate ventilation, especially in confined areas

**Personal protective equipment**  
**Eye Protection** Safety glasses with side-shields  
**Hand Protection** Protective gloves  
**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure  
**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice  
**Environmental exposure controls** No information available.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Dark orange - Red
odor	No information available
pH	No information available.
Boiling Point/Range	No information available.
Melting Point/Range	No information available.
Flash Point	No information available.
Molecular Formula	C <sub>22</sub> H <sub>36</sub> P <sub>2</sub> . C <sub>8</sub> H <sub>12</sub> . B F <sub>4</sub> . Rh
Molecular Weight	660.37

## 10. STABILITY AND REACTIVITY

### Reactivity

#### Chemical Stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

##### Hazardous Polymerization

Hazardous polymerization does not occur.

##### Hazardous Reactions .

None under normal processing..

#### Conditions to Avoid

Incompatible products, Excess heat, Avoid dust formation, Exposure to air, Exposure to moisture.

#### Incompatible Materials

Oxidizing agents, Water.

#### Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Oxides of boron. Hydrogen fluoride. Fluorine. Oxides of phosphorus.

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

##### Product Information

No acute toxicity information is available for this product

##### Component Information

#### Chronic Toxicity

##### Carcinogenicity

There are no known carcinogenic chemicals in this product

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### 11. TOXICOLOGICAL INFORMATION

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Reproductive Effects</b>	No information available.
<b>Developmental Effects</b>	No information available.
<b>Target Organs</b>	None known.
<b>Endocrine Disruptor Information</b>	None known.

### 12. ECOLOGICAL INFORMATION

#### Toxicity

##### **Ecotoxicity effects**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

##### **Persistence and degradability**

No information available

##### **Bioaccumulative potential**

No information available.

##### **Mobility in soil**

No information available.

##### **Results of PBT and vPvB assessment**

##### **Other adverse effects**

No information available

### 13. DISPOSAL CONSIDERATIONS

##### **Waste treatment methods**

##### **Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

##### **Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal

### 14. TRANSPORT INFORMATION

##### **IMDG/IMO**

Not regulated

##### **ADR**

Not regulated

##### **IATA**

Not regulated

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## 14. TRANSPORT INFORMATION

## 15. REGULATORY INFORMATION

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

#### International Inventories

##### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory Lists

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

### Chemical Safety Assessment

## 16. OTHER INFORMATION

### Text of R phrases mentioned in Section 2-3

No information available.

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Revision Summary Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Safety Data Sheet