

Revision Date 23-Mar-2012

**Revision Number 2** 

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

**Product Identifier** 

Product Description: Acetylacetonato(1,5-cyclooctadiene)rhodium(I)

Cat No. 382540000; 382541000; 382545000

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 Pharmaceuticalaan 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

# **SECTION 2. HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

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

| Skin Corrosion/irritation                                 | Category 2 |
|---|------------|
| Serious Eye Damage/Eye Irritation                         | Category 2 |
| Specific target organ systemic toxicity (single exposure) | Category 3 |
| Flammable solids.   | Category 2 |

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

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

**Symbol(s)** F - Highly flammable

Xn - Harmful

R-phrase(s) R11 - Highly flammable

**Risk Combination Phrases** R36/37/38 - Irritating to eyes, respiratory system and skin



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# **SECTION 2. HAZARDS IDENTIFICATION**

### **Label Elements**



Signal Word Hazard Statements

Warning

H335 - May cause respiratory irritation

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H228 - Flammable solid

### Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### Other Hazards

No information available.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component  | EC-No.    | Weight % | CAS-No     | 67/548/EEC<br>Classification | CLP<br>Classification -<br>Regulation (EC)<br>No 1272/2008                                      | REACH No. |
|--|-----------|----------|------------|------------------------------|---|-----------|
| (1,5-Cyclooctadiene)(2,4-<br>pentanedionato)rhodium(I)<br>12245-39-5 | 456-980-9 | 97       | 12245-39-5 | F; R11<br>Xi; R36/37/38      | STOT SE 3<br>(H335)<br>Skin Irrit. 2<br>(H315)<br>Eye Irrit. 2 (H319)<br>Flam. Sol. 2<br>(H228) | -         |



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For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

# **SECTION 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 soap and plenty of water while removing all contaminated clothes

and shoes. Obtain medical attention.

**Ingestion** Clean mouth with water. Get medical attention.

**Inhalation** Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not

breathing, give artificial respiration. Obtain medical attention.

Notes to Physician Treat symptomatically

# **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing media**

### Suitable Extinguishing Media

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. chemical foam.

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

No information available.

### Special hazards arising from the substance or mixture

Flammable. Explosive properties. Combustible material. Fine dust dispersed in air may ignite.

# Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so



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#### Methods and material for containment and cleaning up

Avoid dust formation. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

# **SECTION 7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

Avoid contact with skin and eyes. Avoid contact with clothing. Avoid breathing vapors or mists. Do not ingest. Use explosion-proof equipment. Use only non-sparking tools.

### Conditions for safe storage, including any incompatibilities

Keep in a dry place. Keep container tightly closed. Keep away from heat and sources of ignition. Flammables area. Keep under nitrogen. Keep refrigerated.

### **Specific End Uses**

### SECTION 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.

Component

(1,5-

Cyclooctadiene)(2,4pentanedionato)rhodiu m(I)

| European Union | The United Kingdom | France | Belgium | Spain                         |
|----------------|--------------------|--------|---------|-------------------------------|
|                |                    |        |         | VLA-ED: 1 mg/m <sup>3</sup> 8 |
|                |                    |        |         | horas                         |
|                |                    |        |         |                               |
|                |                    |        |         |                               |
|                |                    |        |         |                               |

### Component

(1,5-

Cyclooctadiene)(2,4-pentanedionato)rhodiu m(I)

| Italy | Germany | Portugal                         | The Netherlands | Finland |
|-------|---------|----------------------------------|-----------------|---------|
|       |         | TWA: 1 mg/m <sup>3</sup> 8 horas |                 |         |
|       |         |                                  |                 |         |
|       |         |                                  |                 |         |
|       |         |                                  |                 |         |

**Biological limit values** 

This product, as supplied, does not contain any hazardous materials with biological limits

established by the region specific regulatory bodies.

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

**Exposure controls** 

**Engineering Measures** 

Use explosion-proof electrical/ventilating/lighting/equipment Ensure that eyewash stations and

safety showers are close to the workstation location

Personal protective equipment



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Goggles **Eye Protection** 

**Hand Protection** Protective gloves

Wear appropriate protective gloves and clothing to prevent skin exposure Skin and body protection

**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.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State** Solid

**Appearance** Yellow-orange

odor strong No information available. Ηq

No information available. **Boiling Point/Range** Melting Point/Range 136 - 141°C / 276.8 - 285.8°F Flash Point No information available.

**Autoignition Temperature** No information available.

Water Solubility Insoluble C13 H19 O2 Rh Molecular Formula 310.21

**Molecular Weight** 

# **SECTION 10. STABILITY AND REACTIVITY**

### Reactivity

### **Chemical Stability**

Moisture sensitive. Air sensitive.

### **Possibility of Hazardous Reactions**

**Hazardous Polymerization** No information available. Hazardous Reactions. No information available.

### **Conditions to Avoid**

Keep away from open flames, hot surfaces and sources of ignition, Exposure to air, Incompatible products, Exposure to moist air or water.

# **Incompatible Materials**

Strong oxidizing agents.

### **Hazardous Decomposition Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).



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# **SECTION 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

SensitizationNo information available.Mutagenic EffectsNo information availableReproductive EffectsNo information available.Developmental EffectsNo information available.Target OrgansNo information available.

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information

**Endocrine Disruptor Information** None known

# **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity** 

**Ecotoxicity effects** Do not empty into drains

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



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No information available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from Residues / Unused

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Dispose of in accordance with local regulations

**Contaminated Packaging** 

Empty containers should be taken to local recyclers for disposal

# **SECTION 14. TRANSPORT INFORMATION**

IMDG/IMO

**Products** 

UN-No 3181 Hazard Class 4.1 Packing Group III

Proper Shipping Name METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.

**ADR** 

UN-No 3181 Hazard Class 4.1 Packing Group III

Proper Shipping Name METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.

IATA

UN-No 3181 Hazard Class 4.1 Packing Group III

Proper Shipping Name METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S.\*

# **SECTION 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 of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

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



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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**

# **SECTION 16. OTHER INFORMATION**

### Full text of R-phrases referred to under sections 2 and 3

R11 - Highly flammable

R36/37/38 - Irritating to eyes, respiratory system and skin

**Revision Date Revision Summary**  23-Mar-2012

Not applicable

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

Disclaimer

The information provided on this Safety Data Sheet 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**