1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Description: Rhodium(III) chloride, anhydrous
Cat No. 419100000; 419105000
Synonyms Rhodium Trichloride.

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: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
REGULATION (EC) No 1272/2008
Serious Eye Damage/Eye Irritation Category 1

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
Symbol(s) Xn - Harmful
R -phrase(s) R22 - Harmful if swallowed
R41 - Risk of serious damage to eyes

Label Elements
2. HAZARDS IDENTIFICATION

Signal Word Danger

Hazard Statements
H318 - Causes serious eye damage

Precautionary Statements - EU (§28, 1272/2008)
P280 - Wear eye protection/face 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
P310 - Immediately call a POISON CENTER or doctor/physician

Other Hazards
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>EC No.</th>
<th>Weight %</th>
<th>CAS-No</th>
<th>Classification</th>
<th>GHSCLAS</th>
<th>REACH Reg. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhodium trichloride</td>
<td>EEC No. 233-</td>
<td>100</td>
<td>10049-07-7</td>
<td>Xn; R22</td>
<td>Eye Dam. 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>165-4</td>
<td></td>
<td></td>
<td>Xi; R41</td>
<td>(H318)</td>
<td>(H302)</td>
</tr>
</tbody>
</table>

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 soap and plenty of water 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

5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable Extinguishing Media
Water spray Carbon dioxide (CO₂) 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
Explosive properties

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

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

Methods and material for containment and cleaning up
Sweep up or vacuum up spillage and collect in suitable container for disposal

7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid contact with skin and eyes Do not breathe dust Do not breathe vapors or spray mist

Conditions for safe storage, including any incompatibilities
Keep in a dry, cool and well-ventilated place Keep container tightly closed

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

Personal protective equipment

Eye Protection
Goggles

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Powder, Solid
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Black</td>
</tr>
<tr>
<td>odor</td>
<td>odorless</td>
</tr>
<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>717°C / 1322.6°F @ 730 mmHg</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>450°C / 842°F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>5.380</td>
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<tr>
<td>Molecular Formula</td>
<td>Cl₃ Rh</td>
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<tr>
<td>Molecular Weight</td>
<td>209.26</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity**

**Chemical Stability**

Hygroscopic. Stable under normal conditions.

**Possibility of Hazardous Reactions**

Hazardous Polymerization: Hazardous polymerization does not occur.
Hazardous Reactions: No information available.

**Conditions to Avoid**

Incompatible products, Exposure to moist air or water.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**


### 11. TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects**

**Acute Toxicity**

**Product Information**

No acute toxicity information is available for this product.

**Component Information**

<table>
<thead>
<tr>
<th>Component</th>
<th>LD₅₀ Oral</th>
<th>LD₅₀ Dermal</th>
<th>LC₅₀ Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhodium trichloride</td>
<td>1302 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Chronic Toxicity**

**Carcinogenicity**

There are no known carcinogenic chemicals in this product.

**Sensitization**

No information available.

**Mutagenic Effects**

Ames test: positive.

**Reproductive Effects**

No information available.

**Developmental Effects**

No information available.

**Target Organs**

No 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

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
UN-No 3260
Hazard Class 8
Packing Group III
Proper Shipping Name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

ADR
UN-No 3260
Hazard Class 8
Packing Group III
Proper Shipping Name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

IATA
UN-No 3260
Hazard Class 8
Packing Group III
Proper Shipping Name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.*
15. REGULATORY INFORMATION

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

<table>
<thead>
<tr>
<th>Component</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>PICCS</th>
<th>ENCS</th>
<th>CHINA</th>
<th>AICS</th>
<th>KECL</th>
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<tbody>
<tr>
<td>Rhodium trichloride</td>
<td>233-165-4</td>
<td>-</td>
<td></td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>KE-30327 X</td>
</tr>
</tbody>
</table>

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
R22 - Harmful if swallowed
R41 - Risk of serious damage to eyes

Revision Date: 16-Nov-2010
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