

Revision Date 09-Feb-2011 **Revision Number** 1 **PRODUCT AND COMPANY IDENTIFICATION** 1. **Product Identifier Product Description:** (R)-(-)-1-[(S)-2-Di-t-butylphosphino)ferrocenyl]ethyldi-(4trifluoromethylphenyl)phosphine Cat No. 370750000; 370751000; 370755000 Relevant identified uses of the substance or mixture and uses advised against **Recommended Use** Laboratory chemicals No Information available Uses advised against 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

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.



(R)-(-)-1-[(S)-2-Di-t-butylphosphino)ferrocenyl]ethyldi-(4-trifluoromethylphenyl)phosphine

Revision Date 09-Feb-2011

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
(R)-(-)-1-[(S)-2-Di-t- butylphosphino)ferrocenyl]ethyldi-(4- trifluoromethylphenyl)phosphine 246231-79-8		100	246231-79-8	-	-	-

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
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

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

6. ACCIDENTAL RELEASE MEASURES



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Revision Date 09-Feb-2011

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) Predicted No Effect Concentration (PNEC) Exposure controls	No information available. No information available.	
Engineering Measures Personal protective equipment	Ensure adequate ventilation, especially in confined areas	
Eye Protection Hand Protection Skin and body protection Respiratory Protection	Goggles Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure 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 Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice No information available.	
9. PHYSICAL AND CHEMICAL PROPERTIES		

Physical	State	

Appearance

Solid No information available



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Revision Date 09-Feb-2011

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Molecular Formula Molecular Weight No information available. No information available. No information available. No information available. C34 H38 F6 Fe P2 678.47

10. STABILITY AND REACTIVITY

Reactivity Chemical Stability Stable under normal conditions

Possibility of Hazardous ReactionsHazardous PolymerizationHazardous Reactions .No information available.No information available.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂). 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	
<u>Chronic Toxicity</u> Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs	No information available. No information available No information available. No information available. No information available.



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Revision Date 09-Feb-2011

11. TOXICOLOGICAL INFORMATION

Other Adverse Effects Endocrine Disruptor Information

The toxicological properties have not been fully investigated. 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
ΙΑΤΑ	Not regulated



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Revision Date 09-Feb-2011

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.

 Revision Date
 09-Feb-2011

 Revision Summary
 Not applicable

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

 Disclaimer

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End of Safety Data Sheet