



Revision Date 15-Dec-2011

**Revision Number** 2

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

Product Identifier Product Description: Cat No. Synonyms

(3S,4S)-(+)-1-Benzyl-3,4-pyrrolidindiol 348730000; 348730010; 348732500 None.

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo 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.sds

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

#### 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 16Symbol(s)Xi - IrritantR-phrase(s)noneRisk Combination PhrasesR36/37/38 - Irritating to eyes, respiratory system and skin





## (3S,4S)-(+)-1-Benzyl-3,4-pyrrolidindiol

Revision Date 15-Dec-2011

## **SECTION 2. HAZARDS IDENTIFICATION**



Signal Word

Warning

## Hazard Statements

- H315 Causes skin irritation H335 - May cause respiratory irritation
- H319 Causes serious eye irritation

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P280 - Wear protective gloves/ protective clothing/ 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

## Other Hazards

No information available.

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

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
(3S,4S)-(+)-1-Benzyl-3,4- pyrrolidindiol 90365-74-5		97	90365-74-5	Xi; R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	-

## 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



# SAFETY DATA SHEET

## (3S,4S)-(+)-1-Benzyl-3,4-pyrrolidindiol

Revision Date 15-Dec-2011

	SECTION 4. 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

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.

## **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

### Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

# **SECTION 7. HANDLING AND STORAGE**

#### Precautions for Safe Handling

# SAFETY DATA SHEET



## (3S,4S)-(+)-1-Benzyl-3,4-pyrrolidindiol

Revision Date 15-Dec-2011

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

## **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.
Biological limit values Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies. No information available. 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 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.

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

Physical State Appearance pH Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Molecular Formula Molecular Weight Solid Beige No information available. No information available. 95 - 101°C / 203 - 213.8°F No information available. No information available. C11 H15 N O2 193.24



# SAFETY DATA SHEET

## (3S,4S)-(+)-1-Benzyl-3,4-pyrrolidindiol

Revision Date 15-Dec-2011

## **SECTION 10. STABILITY AND REACTIVITY**

## Reactivity

## **Chemical Stability**

Stable under normal conditions

## **Possibility of Hazardous Reactions**

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

#### **Conditions to Avoid**

Incompatible products.

#### **Incompatible Materials**

Strong oxidizing agents.

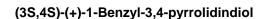
## **Hazardous Decomposition Products**

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

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on Toxicological Effects	5
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
Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs Other Adverse Effects Endocrine Disruptor Information	No information available. No information available No information available. No information available. No information available. The toxicological properties have not been fully investigated. None known





Revision Date 15-Dec-2011

# **SECTION 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

# **SECTION 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 to local recyclers for disposal

# SECTION 14. TRANSPORT INFORMATION

IMDG/IMO	Not regulated
ADR	Not regulated
IATA	Not regulated





## (3S,4S)-(+)-1-Benzyl-3,4-pyrrolidindiol

Revision Date 15-Dec-2011

# **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 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

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

Revision Date15-Dec-2011Revision SummaryNot applicableThis safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006Disclaimer

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End of Safety Data Sheet