

# SAFETY DATA SHEET

Revision Date 09-Nov-2010

#### **Revision Number 2**

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Description: (R)-(+)-3-Butyn-2-ol Cat No. 366300000; 366300010

Synonyms None.

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**

Acute oral toxicity	Category 2
Acute dermal toxicity	Category 3
Skin Corrosion / irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Specific target organ systemic toxicity (single exposure)	Category 3
Flammable liquids.	Category 2

### 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) F - Highly flammable T+ - Very toxic

R -phrase(s) R11 - Highly flammable

R24 - Toxic in contact with skin R28 - Very toxic if swallowed

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

## 2. HAZARDS IDENTIFICATION

#### **Label Elements**



### Signal Word

#### **Danger**

#### **Hazard Statements**

H315 - Causes skin irritation

H335 - May cause respiratory irritation

H300 - Fatal if swallowed

H311 - Toxic in contact with skin

H319 - Causes serious eye irritation

H225 - Highly flammable liquid and vapor

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

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

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

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

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

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

P240 - Ground/Bond container and receiving equipment

#### Other Hazards

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.

3. COMPOSITION/INFORMATION ON INGREDIENTS								
(R)-(+)-3-Butyn-2-ol	98	42969-65-3	F; R11 T; R24 T+; R28 Xi; R36/37/38;	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 2 (H300) Acute Tox. 3 (H311)				

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 Immediate medical attention is required Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes Immediate medical attention is required

Ingestion Call a physician immediately Clean mouth with water

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

breathing, give artificial respiration Immediate medical attention is required

Notes to Physician Treat symptomatically

## 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

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

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### Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Keep in suitable and closed containers for disposal Remove all sources of ignition Use spark-proof tools and explosion-proof equipment

### 7. HANDLING AND STORAGE

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

Do not breathe dust Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Use only in area provided with appropriate exhaust ventilation Use explosion-proof equipment Use only non-sparking tools

#### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place Keep container tightly closed Keep away from heat and sources of ignition Flammables area

#### 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 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

**Eve Protection** Goggles

**Hand Protection** 

Skin and body protection **Respiratory Protection** 

Protective gloves

No information available.

No information available.

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** 

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** 

No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Liquid Light yellow **Appearance** 

No information available. Ηq 108 - 111°C / 226.4 - 231.8°F **Boiling Point/Range** Melting Point/Range No information available.

Flash Point 10°C / 50°F **Specific Gravity** 0.890 Molecular Formula C4 H6 O **Molecular Weight** 70.09

# 10. STABILITY AND REACTIVITY

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Reactivity

**Chemical Stability** 

Stable under normal conditions.

**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, Incompatible products.

**Incompatible Materials** 

Acids, Strong oxidizing agents, Strong bases, Acid anhydrides, copper.

**Hazardous Decomposition Products** 

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

### 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.

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.

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## 12. ECOLOGICAL INFORMATION

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 1986 Hazard Class 3 Subsidiary Hazard Class 6.1 Packing Group II

#### **ADR**

UN-No 1986 Hazard Class 3 Subsidiary Class 6.1 Packing Group II

#### **IATA**

UN-No 1986 Hazard Class 3 Subsidiary Hazard Class 6.1 Packing Group II

## 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

R11 - Highly flammable

R24 - Toxic in contact with skin R28 - Very toxic if swallowed

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

Revision Date 09-Nov-2010
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**