

Creation Date 15-Dec-2011 Revision Date 09-Jan-2012 Revision Number 4

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

**Product Identifier** 

Product Description: (R)-N-BOC-Prolinal Cat No. 376230000; 376230010

Synonyms N-(tert-Butoxycarbonyl)-D-prolinal

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

#### 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) Xi - Irritant

R-phrase(s)

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



(R)-N-BOC-Prolinal Revision Date 09-Jan-2012

# **SECTION 2. HAZARDS IDENTIFICATION**

**Label Elements** 



Signal Word

Warning

#### **Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

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

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.
(R)-N-BOC-Prolinal 73365-02-3		>95	73365-02-3	,	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** 



(R)-N-BOC-Prolinal Revision Date 09-Jan-2012

**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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal..

# **SECTION 7. HANDLING AND STORAGE**

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

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Revision Date 09-Jan-2012 (R)-N-BOC-Prolinal

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 place. Keep container tightly closed. Store in freezer.

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.

This product, as supplied, does not contain any hazardous materials with biological limits **Biological limit values** 

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** 

Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and **Engineering Measures** 

safety showers are close to the workstation location

Personal protective equipment

Eve 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** Liquid **Appearance** 

pН **Boiling Point/Range** Melting Point/Range

**Flash Point** 

**Autoignition Temperature** 

**Water Solubility** 

**Specific Gravity** 

Molecular Formula **Molecular Weight** 

Light yellow

No information available. 228°C / 442.4°F@ 760 mmHg No information available.

110°C / 230°F

No information available.

Slightly soluble

1.059

C10 H17 N O3

199.25



(R)-N-BOC-Prolinal Revision Date 09-Jan-2012

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# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

**Chemical Stability** 

Moisture sensitive.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous Reactions .

No information available. No information available.

**Conditions to Avoid** 

Incompatible products, Exposure to moist air or water.

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

**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.



(R)-N-BOC-Prolinal Revision Date 09-Jan-2012

**Endocrine Disruptor Information** None known

# **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

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(R)-N-BOC-Prolinal Revision Date 09-Jan-2012

#### **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 Date 09-Jan-2012

**Revision Summary** (M)SDS sections updated, 9.

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**