

Creation Date 02-Nov-2010 Revision Date 02-Nov-2010 Revision Number 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Description: 1-BOC-4-chloro-piperidine

 Cat No.
 435010000; 435010010; 435010050

 Synonyms
 tert-Butyl 4-chloropiperidine-1-carboxylate

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

### 2. HAZARDS IDENTIFICATION

## Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 4
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 mentioned in this Section, see Section 16

Symbol(s) Xn - Harmful

R -phrase(s) R22 - Harmful if swallowed

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



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### 2. HAZARDS IDENTIFICATION

**Label Elements** 



Signal Word

Warning

#### **Hazard Statements**

H302 - Harmful if swallowed

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
1-BOC-4-chloro-piperidine		>95		,	STOT SE 3	-
154874-94-9				Xi; R36/37/38	(H335)	
					Skin Irrit. 2	
					(H315)	
					Eye Irrit. 2	
					(H319)	
					Acute Tox. 4	
					(H302)	

For the full text of the R phrases mentioned in this Section, see Section 16



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### 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 plenty of water for at least 15 minutes Obtain medical attention

Ingestion Do not induce vomiting Call a physician or Poison Control Center immediately

**Inhalation** Move to fresh air If breathing is difficult, give oxygen Do not use mouth-to-mouth resuscitation

if victim ingested or inhaled the substance; induce artificial respiration with a respiratory

medical device Obtain medical attention

Notes to Physician Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media** 

**Suitable Extinguishing Media** 

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

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 Thermal decomposition can lead to release of irritating gases and vapors

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation.

**Environmental precautions** 

Should not be released into the environment.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

Wear personal protective equipment Ensure adequate ventilation Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Do not ingest



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### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place

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)

No information available. No information available.

**Exposure controls** 

**Engineering Measures** 

Ensure that eyewash stations and safety showers are close to the workstation location Ensure

adequate ventilation, especially in confined areas

Personal protective equipment

**Eve Protection** 

Safety glasses with side-shields

**Hand Protection** 

Protective gloves

Skin and body protection

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 **Respiratory Protection** 

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** Liquid

**Appearance** Colorless Clear

odor No information available No information available. Ηq **Boiling Point/Range** No information available. **Melting Point/Range** No information available. Flash Point No information available. **Autoignition Temperature** No information available. **Molecular Formula** C10 H18 CI N O2

**Molecular Weight** 219.71

### 10. STABILITY AND REACTIVITY

Reactivity

**Chemical Stability** 

Stable under normal conditions.



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Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous Reactions.

Hazardous polymerization does not occur.

None under normal processing..

**Conditions to Avoid** 

Incompatible products, Excess heat.

**Incompatible Materials** 

Strong oxidizing agents, Strong acids, Strong bases.

**Hazardous Decomposition Products** 

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx). Hydrogen chloride gas.

### 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 OrgansSkin Respiratory system Eyes

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



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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

IATA Not regulated

### 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**



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### 16. OTHER INFORMATION

### Text of R phrases mentioned in Section 2-3

R22 - Harmful if swallowed

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

Revision Date 02-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**