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Revision Number 1

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

### 1.1. Product identifier

**Product Description:** Lilolidine  
**Cat No.** 452900000; 452900010; 452900050  
**Synonyms** 5,6-Dihydro-4H-pyrrolo[3,2,1-ij]quinoline  
**CAS-No** 5840-01-7  
**Molecular Formula** C11 H11 N

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Laboratory chemicals  
**Uses advised against** No Information available

### 1.3. Details of the supplier of the safety data sheet

**Company** Acros Organics BVBA  
 Janssen Pharmaceuticaaan 3a  
 2440 Geel, Belgium  
**E-mail address** begel.sdsdesk@thermofisher.com

**1.4. 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

### 2.1. Classification of the substance or mixture

#### CLP Classification - Regulation (EC) No 1272/2008

##### **Physical hazards**

Based on available data, the classification criteria are not met

##### **Health hazards**

Based on available data, the classification criteria are not met

##### **Environmental hazards**

Based on available data, the classification criteria are not met

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

**R-phrases(s)** none

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

### 2.2. Label elements

**Hazard Statements****Precautionary Statements****2.3. Other hazards**

No information available.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Component  | CAS-No    | EC-No. | Weight % | CLP Classification -<br>Regulation (EC) No<br>1272/2008 | DSD Classification -<br>67/548/EEC |
|------------|-----------|--------|----------|---|------------------------------------|
| Lilolidine | 5840-01-7 |        | >95      | -   | -                                  |

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**

|                                   |  |
|-----------------------------------|--|
| <b>Eye Contact</b>                | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician                |
| <b>Skin Contact</b>               | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes |
| <b>Ingestion</b>                  | Clean mouth with water and drink afterwards plenty of water  |
| <b>Inhalation</b>                 | Move to fresh air  |
| <b>Protection of First-aiders</b> | No special precautions required.   |

**4.2. Most important symptoms and effects, both acute and delayed**

No information available

**4.3. Indication of any immediate medical attention and special treatment needed**

|                           |                       |
|---------------------------|-----------------------|
| <b>Notes to Physician</b> | Treat symptomatically |
|---------------------------|-----------------------|

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Extinguishing media which must not be used for safety reasons**

No information available.

**5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors

**Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>).

**5.3. Advice for firefighters**

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

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so

### 6.3. Methods and material for containment and cleaning up

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Ensure adequate ventilation

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

Keep container tightly closed in a dry and well-ventilated place

### 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. 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

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

**Derived No Effect Level (DNEL)** No information available.

| Route of exposure | Acute effects (local) | Acute effects (systemic) | Chronic effects (local) | Chronic effects (systemic) |
|-------------------|-----------------------|--------------------------|-------------------------|----------------------------|
| Oral              |                       |                          |                         |                            |
| Dermal            |                       |                          |                         |                            |
| Inhalation        |                       |                          |                         |                            |

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls****Engineering Measures**

None under normal use conditions..

**Personal protective equipment****Eye Protection**

Safety glasses with side-shields (European standard - EN 166)

**Hand Protection**

Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments        |
|----------------|-------------------|-----------------|-------------|-----------------------|
| Natural rubber | See manufacturers | -               | EN 374      | (minimum requirement) |
| Nitrile rubber | recommendations   |                 |             |                       |
| Neoprene       |                   |                 |             |                       |
| PVC            |                   |                 |             |                       |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

**Skin and body protection**

Long sleeved clothing

**Respiratory Protection**

No protective equipment is needed under normal use conditions.

**Large scale/emergency use**

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced..

**Recommended Filter type:** Particle filter.**Small scale/Laboratory use**Maintain adequate ventilation**Recommended half mask:-** Particle filtering: EN149:2001**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls**

No information available.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****Appearance**

White to brown

**Physical State**

Powder.

**Odor**

No information available

**Odor Threshold**

No data available

**pH**

No information available.

**Melting Point/Range**

No data available

**Softening Point**

No data available

**Boiling Point/Range**

No information available.

**Flash Point**

No information available.

**Method -** No information available.**Evaporation Rate**

Not applicable

Solid

**Flammability (solid,gas)**

No information available.

**Explosion Limits**

No data available.

|   |                           |       |
|---|---------------------------|-------|
| Vapor Pressure                          | No data available         |       |
| Vapor Density                           | Not applicable            | Solid |
| Specific Gravity / Density              | No data available         |       |
| Bulk Density                            | No data available         |       |
| Water Solubility                        | No information available. |       |
| Solubility in other solvents            | No information available. |       |
| Partition Coefficient (n-octanol/water) |                           |       |
| Autoignition Temperature                | Not applicable            |       |
| Decomposition temperature               | No data available         |       |
| Viscosity                               | Not applicable            | Solid |
| Explosive Properties                    | No information available. |       |
| Oxidizing Properties                    | No information available. |       |

**9.2. Other information**

|                   |           |
|-------------------|-----------|
| Molecular Formula | C11 H11 N |
| Molecular Weight  | 157.21    |

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

None known, based on information available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

|                          |                           |
|--------------------------|---------------------------|
| Hazardous Polymerization | No information available  |
| Hazardous Reactions      | No information available. |

**10.4. Conditions to avoid**

None known

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>).**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

|                     |   |
|---------------------|---|
| Product Information | No acute toxicity information is available for this product |
|---------------------|---|

**(a) acute toxicity;**

|            |                   |
|------------|-------------------|
| Oral       | No data available |
| Dermal     | No data available |
| Inhalation | No data available |

|                                       |                   |
|---------------------------------------|-------------------|
| <b>(b) skin corrosion/irritation;</b> | No data available |
|---------------------------------------|-------------------|

|   |                   |
|---|-------------------|
| <b>(c) serious eye damage/irritation;</b> | No data available |
|---|-------------------|

**(d) respiratory or skin sensitization;**

|             |                   |
|-------------|-------------------|
| Respiratory | No data available |
| Skin        | No data available |

|  |   |
|--|---|
| (e) germ cell mutagenicity;  | No data available   |
| (f) carcinogenicity;   | No data available   |
|  | There are no known carcinogenic chemicals in this product                                   |
| (g) reproductive toxicity;   | No data available   |
| (h) STOT-single exposure;  | No data available   |
| (i) STOT-repeated exposure;  | No data available   |
| Target Organs  | No information available.   |
| (j) aspiration hazard;   | Not applicable<br>Solid   |
| Other Adverse Effects<br>Symptoms / effects,<br>both acute and delayed | The toxicological properties have not been fully investigated.<br>No information available. |

## SECTION 12: ECOLOGICAL INFORMATION

|  |   |
|--|---|
| <b>12.1. Toxicity</b><br>Ecotoxicity effects   | Do not empty into drains.   |
| <b>12.2. Persistence and degradability</b>   | No information available  |
| <b>12.3. Bioaccumulative potential</b>   | No information available.   |
| <b>12.4. Mobility in soil</b>  | No information available.   |
| <b>12.5. Results of PBT and vPvB assessment</b>  | No data available for assessment  |
| <b>12.6. Other adverse effects</b><br>Endocrine Disruptor Information<br>Persistent Organic Pollutant<br>Ozone Depletion Potential | This product does not contain any known or suspected endocrine disruptors<br>This product does not contain any known or suspected substance<br>This product does not contain any known or suspected substance |

## SECTION 13: DISPOSAL CONSIDERATIONS

|                                       |   |
|---------------------------------------|---|
| <b>13.1. Waste treatment methods</b>  |   |
| Waste from Residues / Unused Products | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. |
| Contaminated Packaging                | Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.  |
| European Waste Catalogue (EWC)        | According to the European Waste Catalogue, Waste Codes are not product specific, but application specific   |
| Other Information                     | Waste codes should be assigned by the user based on the application for which the product was used  |

## SECTION 14: TRANSPORT INFORMATION

|          |               |
|----------|---------------|
| IMDG/IMO | Not regulated |
|----------|---------------|

**14.1. UN number****14.2. UN proper shipping name****14.3. Transport hazard class(es)****14.4. Packing group****ADR**

Not regulated

**14.1. UN number****14.2. UN proper shipping name****14.3. Transport hazard class(es)****14.4. Packing group****IATA**

Not regulated

**14.1. UN number****14.2. UN proper shipping name****14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards**

No hazards identified

**14.6. Special precautions for user**

No special precautions required

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable, packaged goods

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

X = listed

**National Regulations**

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

Take note of Dir 94/33/EC on the protection of young people at work

**15.2. Chemical safety assessment**

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

**SECTION 16: OTHER INFORMATION****Legend****CAS** - Chemical Abstracts Service**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Existing and Evaluated Chemical Substances**WEL** - Workplace Exposure Limit**ACGIH** - American Conference of Industrial Hygiene**DNEL** - Derived No Effect Level**RPE** - Respiratory Protective Equipment**LC50** - Lethal Concentration 50%**NOEC** - No Observed Effect Concentration**PBT** - Persistent, Bioaccumulative, Toxic**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**ENCS** - Japan Existing and New Chemical Substances**AICS** - Australian Inventory of Chemical Substances**NZIoC** - New Zealand Inventory of Chemicals**TWA** - Time Weighted Average**IARC** - International Agency for Research on Cancer**PNEC** - Predicted No Effect Concentration**LD50** - Lethal Dose 50%**EC50** - Effective Concentration 50%**POW** - Partition coefficient Octanol:Water**vPvB** - very Persistent, very Bioaccumulative

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - Volatile Organic Compounds

#### Key literature references and sources for data

Suppliers safety data sheet,  
Chemadvisor - LOLI,  
Merck index,  
RTECS

#### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

**Creation Date** 27-Jun-2013

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**Revision Summary**

**Reason for revision** Not applicable

**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**