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# MATERIAL SAFETY DATA SHEET

Date Revised: December 18, 2013

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	L-NIL ( $N^{\circ}$ -(1-iminoethyl)-lysine, hydrochloride)
Catalog Number:	00242
Unit Size:	5mg
Manufacturer/Supplier:	Biotium, Inc.
	3159 Corporate Place, Hayward, CA 94545, USA
	Phone: 1-510-265-1027, Fax: 1-510-265-1352
	Web: http://www.biotium.com

#### 2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008[CLP] None Classification according to Directive 1999/45/EC None

Labeling according to Regulation (EC) No 1272/2008[CLP] Hazard pictogram None Signal word None Hazard statements None Precautionary statements None

#### **HMIS Classification**

Health hazard: 0 Flammability: 0 Physical hazards: 0 **NFPA Rating** Health hazard: 0 Fire: 0 Reactivity Hazard: 0

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
L-NIL	150403- 89-7	-	-	<u>&gt;</u> 95%	-	-

#### 4. FIRST- AID MEASURES

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.



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#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Flush eyes with water as a precaution. If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water. **Special protective equipment for firefighters** Wear self contained breathing apparatus for firefighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Avoid breathing vapors, mist or gas. Remove all sources of ignition. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. **Methods and materials for containment and cleaning up** Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid inhalation of vapor or mist.

Avoid direct contact with substance.

#### Conditions for safe storage

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

*Extremely hygroscopic*. Stored desiccated at 4 C upon receipt and protect from moisture at all times. Store in tightly sealed vials under inert gas. Warm to room temperature <u>before</u> opening the vial.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parametersSubstanceL-NILCAS no.150403-89-7Control parameterNo information available



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# Personal protective equipment

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Respiratory protection**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	L-NIL
Appearance	Off-White Solid. Very
	hygroscopic
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point	No information available
Boiling point	No information available
Flash point	No information available
Evaporate rate	No information available
Flammability	No information available
Explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Solubility	100 mg/ml soluble in water
	or methanol
Partition coefficient:n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidising properties	No information available

10. STABILITY AND REACTIVITY

Biotium

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Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

Conditions to avoid Heat, moisture.

Materials to avoid

Strong acids/alkalis, strong oxidising/reducing agents.

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50	None	
Inhalation I		
Dermal LD		
	mation on acute toxicity	no data available
	ation no data available	no uala avaliable
	e/eye irritationno data avai	labla
	sensitization no data avai	
Germ cell mutageni		
Carcinogenicity	city no data avai	IdDIE
• •	t of this product present at l	evels greater than or equal to 0.1% is identified as
	confirmed human carcinog	•
	-	levels greater than or equal to 0.1% is identified as a
	ial carcinogen by ACGIH.	nevels greater than or equal to 0.170 is identified as a
<b>U</b> 1	0,	vels greater than or equal to 0.1% is identified as a known
or anticipated carcino		
•	•	levels greater than or equal to 0.1% is identified as a
	ial carcinogen by OSHA.	
Reproductive toxici	<b>U</b>	
•	-	re (Globally Harmonized System)
no data available		
Specific target orga	in toxicity - repeated expo	sure (Globally Harmonized System)
no data available		
Aspiration hazard		
no data available		
Potential health effe	ects	
Inhalation Ma	ay be harmful if inhaled. May	v cause respiratory tract irritation.
Ingestion Ma	ay be harmful if swallowed.	
Skin Ma	ay be harmful if absorbed thr	ough skin. May cause skin irritation.
Eyes Ma	ay cause eye irritation.	
Additional Information Exposure may cause irritation to eyes, mucous membranes, upper respiratory		
tract and skin		
RTECS: OL5640500		



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# 12. ECOLOGICAL INFORMATION

Toxicity no info	rmation a	vailable	
Persistence and degrad	lability	no info	rmation available
Biodegradation	no info	rmation a	vailable
Mobility in soil	no information available		
Results of PBT and vPv	B asses	sment	no information available
Other adverse effects	May be	e harmful	to the aquatic environment.
Additional information	no info	rmation a	vailable

# 13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

#### 14. TRANSPORT INFORMATION

#### IATA, IMDG, DOT(US) not dangerous good during transportation

UN number none UN proper shipping name none Transport hazard class none Packing group none Environmental hazards none Special precaution for user none

# none

15. REGULATION INFORTMATION

#### **US Federal Regulations**

US Toxic Substances Control Act(TSCA): Not listed SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312 Hazards: No chemicals were found.

#### 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Prepared by:	Regulatory Department
	Biotium Inc.
Version no.	2
Reason for revision	Application of CLP labeling and corresponding requirements



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