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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: LAP Disks  
Catalog Number: DL10  
Product Use: For laboratory use only

Manufacturer's Name: Dalynn Biologicals Inc.  
Supplier's Name: Dalynn Biologicals Inc.  
Address: 3253 – 34 Avenue NE  
Calgary, AB, Canada  
T1Y 6X2

Telephone: 1-888-404-4045  
Fax: (403) 250-9010  
Chemical Emergency: 1-613-996-6666  
Phone Number Only

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**2. HAZARD IDENTIFICATION****Emergency Overview****GHS Classification**

None

**GHS Label Elements, Including Precautionary Statements**

Pictogram No symbol

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**3. COMPOSITION & INFORMATION ON INGREDIENTS**

Synonyms None

INGREDIENT	%	CAS-No.	EC-No.	Index-No.
L-Leucine $\beta$ -naphthylamide hydrochloride	100	91-59-8	202-080-4	612-022-00-3

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**4. FIRST AID MEASURES****General advice**

No negative side effects are expected from exposure but consult a physician if patient feels unwell. Show this safety data sheet to the doctor in attendance. Move affected individual out of affected area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If feeling unwell, consult a physician.

**In case of skin contact**

Wash affected area with soap and water. If feeling unwell, consult a physician.

**In case of eye contact**

As a precaution, flush eyes with plenty of water. If feeling unwell, consult a physician.

**If swallowed**

Do not induce vomiting. Rinse mouth with water if patient is conscious. If feeling unwell, consult a physician.

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**5. FIREFIGHTING MEASURES****Conditions of flammability**

Direct flame.

**Suitable extinguishing media**

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

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions: carbon oxides

**Explosion data – sensitivity to mechanical impact**

Not sensitive to mechanical impact.

**Explosion data – sensitivity to static discharge**

Not sensitive to static discharge.

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear gloves during clean up.

**Environmental precautions**

None. No environmental concerns.

**Methods and materials for containment and cleaning up**

Wearing chemical resistant gloves, sweep up and place in a sealed container. Can be discarded with regular waste.

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**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid direct contact with skin and eyes.

**Conditions for safe storage**

Store frozen at -20°C away from direct light or sunlight.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Personal protective equipment****Respiratory protection**

Use in area with adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN

(EU).

#### **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 after use.

#### **Eye protection**

If desired, face shield and/or safety glasses may be worn. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Skin and body protection**

Wear appropriate clothing such as a lab coat that covers as much of the body as possible. Complete suit can also be worn if desired.

#### **Hygiene measures**

Wash hands before breaks and immediately

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form	paper disk with no odor
Color	white

### **Safety data**

pH	No data available
Melting point/ freezing point	Not applicable
Boiling point	Not applicable
Flash point	No data available
Ignition temperature	No data available
Auto ignition temperature	No data available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor pressure	No data available
Density	No data available
Water solubility	No data available
Partition coefficient/ n-octanol/water	No data available
Relative vapor density	No data available
Odour	No data available
Odour threshold	No data available
Evaporation rate	No data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

None

### Materials to avoid

Strong acids, strong bases

### Hazardous decomposition products

Other decomposition products – No data available

Hazardous decomposition products formed under fire conditions – Carbon oxides

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

Not available

#### Inhalation LC50

Not available

#### Dermal LD50

Not available

### Other information on acute toxicity

No data available

### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

The active ingredient, L-leucine  $\beta$ -naphthylamide hydrochloride, is a possible carcinogen given that

$\beta$ -naphthylamide is a known carcinogen therefore avoid direct contact during use. Each disk only contains 0.175-mg of L-leucine  $\beta$ -naphthylamide hydrochloride.

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity – single exposure (GHS)**

No data available

**Specific target organ toxicity – repeated exposure (GHS)**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

**Inhalation** No effects expected but may be harmful if inhaled.

**Skin** No effects expected.

**Eyes** May cause mild eye irritation.

**Ingestion** May be harmful if swallowed.

**Signs and Symptoms of Exposure**

The active ingredient, L-leucine  $\beta$ -naphthylamide hydrochloride, is a possible carcinogen given that  $\beta$ -naphthylamide is a known carcinogen therefore avoid direct contact during use. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects**

No data available

**Additional information**

RTECS: Not available

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**12. ECOLOGICAL INFORMATION**

**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS****Product**

Can be disposed of as regular waste.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS/SDS contains all the information required by them.

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**16. OTHER INFORMATION****Further information**

Copyright 2018 Dalynn Biologicals Inc. The above information is believed to be correct but does not purport to be all inclusive and shall be only used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dalynn Biologicals Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.