

# SAFETY DATA SHEET

## Dethlac Insecticidal Lacquer

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name Dethlac Insecticidal Lacquer

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

Identified uses Insecticide

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

Supplier Gerhardt Pharmaceuticals Ltd  
PO Box 777  
London  
SW19 5DY  
UK  
  
02089440505

#### 1.4. Emergency telephone number

Emergency telephone 020 8944 0505 (Gerhardt Pharmaceuticals Ltd)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards Aerosol 1 - H222, H229  
Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336  
Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC) Xi;R36. F+;R12. N;R50/53.

#### 2.2. Label elements

##### Pictogram



Signal word

Danger

##### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H410 Very toxic to aquatic life with long lasting effects.

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**Precautionary statements**

P102 Keep out of reach of children.  
 P260 Do not breathe spray.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P273 Avoid release to the environment.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P305 IF IN EYES:  
 P351 Rinse cautiously with water for several minutes.

**Contains** PROPAN-2-OL

## 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>PROPAN-2-OL</b>	<b>30-60%</b>
CAS number: 67-63-0	EC number: 200-661-7
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Flam. Liq. 2 - H225	F;R11 Xi;R36 R67
Eye Irrit. 2 - H319	
STOT SE 3 - H336	
<b>ETHANOL</b>	<b>10-30%</b>
CAS number: 64-17-5	EC number: 200-578-6
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Flam. Liq. 2 - H225	F;R11
Eye Irrit. 2 - H319	
<b>Distillates (petroleum), hydrotreated light</b>	<b>1-5%</b>
CAS number: 64742-47-8	EC number: 265-149-8
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Asp. Tox. 1 - H304	Xn;R65. R66.
<b>2-METHOXY-1-METHYLETHYL ACETATE</b>	<b>&lt;1%</b>
CAS number: 108-65-6	EC number: 203-603-9
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Flam. Liq. 3 - H226	R10

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<b>Pyrethrins and Pyrethroids</b>	<b>&lt;1%</b>
CAS number: 8003-34-7	EC number: 232-319-8
M factor (Acute) = 10	M factor (Chronic) = 10
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R20/21/22. N;R50/53.

  

<b>DELTAMETHRIN TG</b>	<b>&lt;1%</b>
CAS number: 52918-63-5	EC number: 258-256-6
M factor (Acute) = 1000000	M factor (Chronic) = 10000
<b>Classification</b> Acute Tox. 3 - H301 Acute Tox. 3 - H331 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> T;R23,R25. N;R50/53.

  

<b>Butylated Hydroxytoluene (BHT)</b>	<b>&lt;1%</b>
CAS number: 128-37-0	EC number: 204-881-4
M factor (Acute) = 1	M factor (Chronic) = 1
<b>Classification</b> Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> N;R50/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments**      Deltamethrin 0.02% and Pyrethrins 0.08%

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Consult a physician for specific advice. Do not induce vomiting.
<b>Skin contact</b>	Wash skin thoroughly with soap and water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	Irritation of nose, throat and airway.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** Extremely flammable. Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** No known hazardous decomposition products.

### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses.

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

**Methods for cleaning up** Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Avoid contact with eyes. Eliminate all sources of ignition. Good personal hygiene procedures should be implemented.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep away from heat, sparks and open flame.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: Exposure Controls/personal protection**

### 8.1. Control parameters

#### Occupational exposure limits

PROPAN-2-OL

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Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

## ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

## 2-METHOXY-1-METHYLETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 274 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 548 mg/m<sup>3</sup>

Sk

## Pyrethrins and Pyrethroids

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

## DELTA METHRIN TG

Short-term exposure limit (15-minute): OES 0.02 mg/m<sup>3</sup>

## Butylated Hydroxytoluene (BHT)

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

## 8.2. Exposure controls

<b>Appropriate engineering controls</b>	Provide adequate ventilation.
<b>Eye/face protection</b>	Not relevant.
<b>Hand protection</b>	No specific hand protection recommended. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Gloves are recommended for prolonged use.
<b>Hygiene measures</b>	No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

**Appearance** Aerosol.

**Flash point** < 0°C

### 9.2. Other information

**Other information** No information required.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not applicable.

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## 10.4. Conditions to avoid

**Conditions to avoid** Avoid exposure to high temperatures or direct sunlight.

## 10.5. Incompatible materials

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Serious eye damage/irritation

**Serious eye damage/irritation** Moderately irritating.

#### Toxicological information on ingredients.

#### Pyrethrins and Pyrethroids

##### Germ cell mutagenicity

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

##### Reproductive toxicity

**Reproductive toxicity - development** Does not contain any substances known to be toxic to reproduction.

#### DELTAMETHRIN TG

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 87.0

**Species** Mouse

**ATE oral (mg/kg)** 87.0

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 0.6

**Species** Rat

**ATE inhalation (dusts/mists mg/l)** 0.6

##### Skin corrosion/irritation

**Animal data** Not irritating.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating.

##### Skin sensitisation

**Skin sensitisation** Not sensitising.

##### Germ cell mutagenicity

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<b>Genotoxicity - in vitro</b>	: Negative. This substance has no evidence of mutagenic properties.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	There is no evidence that the product can cause cancer.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - development</b>	This substance has no evidence of toxicity to reproduction.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not applicable.
<b>Inhalation</b>	Harmful by inhalation. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin contact</b>	Not a skin sensitiser.
<b>Eye contact</b>	No specific health hazards known.
<b>Acute and chronic health hazards</b>	Contact with this chemical can be hazardous.

### SECTION 12: Ecological Information

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### Ecological information on ingredients.

##### Pyrethrins and Pyrethroids

**Ecotoxicity** Dangerous for the environment. May cause long-term adverse effects in the aquatic environment.

#### 12.1. Toxicity

**Toxicity** Very toxic to aquatic organisms.

#### Ecological information on ingredients.

##### Pyrethrins and Pyrethroids

###### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.01 < L(E)C<sub>50</sub> ≤ 0.1

**M factor (Acute)** 10

###### Chronic aquatic toxicity

**M factor (Chronic)** 10

##### DELTAMETHRIN TG

###### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.0000001 < L(E)C<sub>50</sub> ≤ 0.000001

**M factor (Acute)** 1000000

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours, 96 hours: 0.00026 mg/l, Onchorhynchus mykiss (Rainbow trout)

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<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 96 hours, 96 hours: 0.0000003 mg/l, Freshwater invertebrates Gammarus fasciatus
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours, 96 hours: > 0.47 mg/l, Freshwater algae Chlorella vulgaris
<u>Chronic aquatic toxicity</u>	
<b>NOEC</b>	0.000001 < NOEC ≤ 0.00001
<b>Degradability</b>	Non-rapidly degradable
<b>M factor (Chronic)</b>	10000
<b>Chronic toxicity - fish early life stage</b>	NOEC, : 0.000017 mg/l, Pimephales promelas (Fat-head Minnow) 260 days
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days, 21 days: 0.0000041 mg/l, Daphnia magna

### 12.2. Persistence and degradability

#### Ecological information on ingredients.

##### Pyrethrins and Pyrethroids

**Phototransformation** Not considered to be persistent in the atmosphere.

##### DELTA METHRIN TG

**Persistence and degradability** The product is not readily biodegradable.

### 12.3. Bioaccumulative potential

#### Ecological information on ingredients.

##### Pyrethrins and Pyrethroids

**Bioaccumulative potential** The product is not bioaccumulating.

##### DELTA METHRIN TG

**Bioaccumulative potential** The product is not bioaccumulating. BCF: 1400, Lepomis macrochirus (Bluegill)

**Partition coefficient** : 4.6

### 12.4. Mobility in soil

#### Ecological information on ingredients.

##### DELTA METHRIN TG

**Mobility** The product has poor water-solubility.

**Henry's law constant** ~ 1.252 x 10<sup>-3</sup> Pa m<sup>3</sup>/mol @ °C Estimated value.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### Ecological information on ingredients.

##### Pyrethrins and Pyrethroids



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**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

## DELTAMETHRIN TG

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** Not applicable.

### Ecological information on ingredients.

## DELTAMETHRIN TG

**Other adverse effects** Not applicable.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**General information** Do not puncture or incinerate, even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## **SECTION 14: Transport information**

**Road transport notes** Avoid releasing into the environment.

**Rail transport notes** Avoid releasing into the environment.

**Sea transport notes** Do not release into the environment.

### 14.1. UN number

**UN No. (ADR/RID)** 1950

**UN No. (IMDG)** 1950

**UN No. (ICAO)** 1950

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** Aerosols (deltamethrin, pyrethrins)

**Proper shipping name (IMDG)** Aerosols (deltamethrin, pyrethrins)

**Proper shipping name (ICAO)** Aerosols (deltamethrin, pyrethrins)

**Proper shipping name (ADN)** Aerosols (deltamethrin, pyrethrins)

### 14.3. Transport hazard class(es)

**ADR/RID class** 2

**IMDG class** 2

**ICAO class/division** 2.1

### 14.4. Packing group

**ADR/RID packing group** Not allocated

**IMDG packing group** Not allocated

**ICAO packing group** Not allocated

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## 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



## 14.6. Special precautions for user

EmS F-A, S-F

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation Dangerous Substances Directive 67/548/EEC.  
Dangerous Preparations Directive 1999/45/EC.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Risk phrases in full</b>	R10 Flammable. R11 Highly flammable. R12 Extremely flammable. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R23 Toxic by inhalation. R25 Toxic if swallowed. R36 Irritating to eyes. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
<b>Hazard statements in full</b>	H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H229 Pressurised container: may burst if heated H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.