

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1: Product Identifier**

Trade name: VLSE-191069

**1.2: Relevant identified uses of the substance or mixture and uses advised against**

Recommended use: For use with liquid nitrogen fertilisers.  
Uses advised against: None known

**1.3: Details of the supplier of the safety data sheet**

Company name: Verdesian Life Sciences Europe Limited  
Address: 7 Rotherbrook Court  
Bedford Road  
Petersfield  
GU32 3QG  
United Kingdom  
Telephone: +44(0) 1730 720 500  
Homepage: www.vlsci.com

**1.4: Emergency telephone number**

Emergency telephone: +44 (0)1235 239670 (24hr)

**Section 2: Hazards Identification**

**2.1 Classification of the substance or mixture**

Classification under CLP: Eye Damage 1: H318

**2.2 Label Elements (In compliance with EC Regulation No. 1272/2008 (CLP), as amended)**



Hazard pictogram:

Signal word: **Danger**

**Hazard Statements**

H318	Causes serious eye damage.
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**Precautionary Statements**

P280	Wear eye protection.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER/doctor.

**2.3 Other hazards**

None.

**Section 3: Composition/information on ingredients**

**Product type:** Mixture.

CAS No.	EC No.	Substance Name	Classification*	Concentration (%w/w)
98-79-3	202-700-3	Pidolic acid	Eye Dam 1 (H318)	<20

\*For full text of H statements see Section 16

**Section 4: First Aid Measures**

**4.1 Description of first aid measures**

**General advice:** Provide this SDS to medical personnel for treatment.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison centre/doctor.

**Skin contact:** Remove all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

**Inhalation:** Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison centre if individual's condition declines or if symptoms persist.

**Ingestion:** Do NOT induce vomiting. Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

**Symptoms:** May cause gastrointestinal irritation, nausea, diarrhoea, and vomiting. May cause skin and eye irritation.

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

**Notes to physician:** Treat symptomatically.

## **Section 5: Firefighting Measures**

### **5.1 Extinguishing media**

**Suitable:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable:** Not determined.

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

Not determined.

### **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**

**Personal precautions:** In case of a spill, clear the affected area and protect people. Wear protective clothing as described in Section 8 of this safety data sheet.

### **6.2 Environmental Precautions**

See Section 12 for additional ecological information.

### **6.3 Methods for cleaning up**

**Clean-up procedures:** For small spills, absorb using spill pads or other suitable non-reactive absorbent materials (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Transfer to a closeable, labelled salvage container for disposal in accordance with local regulations

### **6.4 Reference to other sections**

Refer to Section 8 of the SDS.

## **Section 7: Handling and Storage**

### **7.1 Precautions for safe handling**

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8, including eye protection. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from heat, sparks, flame. Keep out of the reach of children.

**Incompatible materials:** None known based on information supplied.

**7.3 Specific end use(s)**

**Specific end use:** See product use, Section 1.2.

**Section 8: Exposure controls/personal protection**

**8.1 Control parameters**

No exposure limits noted for ingredients. The following information is given as general guidance.

**8.2 Exposure controls**

**Appropriate engineering controls**

**Engineering controls:** Maintain eye wash fountain and quick-drench facilities in work area. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection:** Splash goggles or safety goggles.

**Skin/body protection:** Use body protection appropriate for task. An apron or other impermeable body protection is suggested. Full-body chemical protective clothing is recommended for emergency response procedures. Wear suitable gloves appropriate for the risk of exposure.

**Respiratory protection:** Follow respirator regulations and, if necessary, wear an approved respirator.

**General hygiene considerations:** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

**Section 9: Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	Yellow to light brown liquid
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	Not determined
<b>pH</b>	4.00 – 4.25
<b>Melting point</b>	Not determined
<b>Freezing point</b>	Not determined
<b>Initial boiling point</b>	Not determined
<b>Boiling range</b>	Not determined



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Eye damage/irritation:	Eye Damage 1.
Skin corrosion/irritation:	Prolonged contact may cause redness and irritation.
Respiratory or Skin sensitisation:	Not determined.
STOT (single exposure):	Not determined.
STOT (repeated):	Not determined.
Germ cell mutagenicity:	Not determined.
Carcinogenicity:	Based on the information provided, this product does not contain any carcinogens or potential carcinogens.
Reproductive and lactation toxicity:	Not determined.
Aspiration hazard:	Not determined.
Inhalation:	May cause irritation if inhaled.
Ingestion:	May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

Component information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Pidolic acid	> 1 g/kg (rat)	-	-
Proprietary	= 20 g/kg (rat)	= 20800 mg/kg (rabbit)	-

**Section 12: Ecological Information**

**12.1 Toxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Proprietary	96 h EC50 <i>Pseudokirchneriella subcapitata</i> = 19000 mg/L	96 h static LC50 <i>Oncorhynchus mykiss</i> = 51600 mg/L  96 h static LC50 <i>Oncorhynchus mykiss</i> = 41-47 mL/L  96 h LC50 <i>Pimephales promelas</i> = 710 mg/L 96 h static LC50 <i>Pimephales promelas</i> = 51400 mg/L	48 h static EC50 <i>Daphnia magna</i> = 1000 mg/L  24 h EC50 <i>Daphnia magna</i> = 10000 mg/L

**12.2 Persistence and degradability**

Not determined.

**12.3 Bio accumulative potential**

No data available.

**12.4 Mobility in soil**

Not determined.

**12.5 Results of PBT and vPvB assessment**

This product has not been evaluated for PBT/vPvB characteristics.

**12.6 Other adverse effects**

Not determined.

<b><u>Section 13: Disposal Considerations</u></b>
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**13.1 Waste treatment methods**

**Disposal of wastes:** Disposal should be in accordance with regional, national and local laws and regulations.

**Contaminated packaging:** Disposal should be in accordance with regional, national and local laws and regulations.

<b><u>Section 14: Transport Information</u></b>
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**14.1 UN Number**

**UN number :** Not applicable.

**14.2 UN proper shipping name**

**Shipping name:** Not regulated for transport.

**14.3 Transport hazard classes**

**Transport class:** Not applicable.

**14.4 Packing group**

**Packing group:** Not applicable.

**14.5 Environmental hazards**

Not considered environmentally hazardous.

**14.6 Special precautions for user**

No special precautions.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

<b><u>Section 15: Regulatory Information</u></b>
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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No specific regulations.

**15.2 Chemical Safety Assessment**

A chemical safety assessment has not been carried out for the substances in this mixture.

<b>Section 16: Other Information</b>
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Phrases in Sections 2-3:            H318            Causes serious eye damage

Other information:                    This safety data sheet is prepared in accordance with Regulation (EC) No. 1907/2006 (REACH) and 1272/2008 (CLP) as amended in each case.

Abbreviations:                    CLP:            Classification, Labelling and Packaging.  
EC50:            Median effective concentration.  
LC50:            Median lethal concentration.  
LD50:            Median lethal dose.  
PBT:            Persistent, Bioaccumulative and Toxic substance.  
PNEC:           Predicted No-Effect Concentration.  
REACH:        Registration, Evaluation, Authorisation and Restriction of Chemicals.  
vPvB:           Very Persistent and very Bioaccumulative.

Legal disclaimer:                    The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product.