



## SAFETY DATA SHEET

### Advance 66

Date reviewed:

16/01/2017

Revision No.: 2

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

### **1.1: Product Identifier**

Trade name: Advance 66

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

Registered uses: For use only as a fertiliser

Uses advised against: None known

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

Company name: Verdesian Life Sciences LLC  
1001 Winstead Drive  
Cary  
NC-27513  
USA

Telephone: +1 919 825 1901

European contact name: Verdesian Life Sciences Europe Ltd  
Address: 7 Rotherbrook Court  
Bedford Road  
Petersfield GU32 3QG  
UK

Telephone: +44 (0)1730 720100

Homepage: [www.vlsci.com](http://www.vlsci.com)

### **1.4: Emergency telephone number**

Emergency telephone: +44 1235 239670

## **Section 2: Hazards Identification**

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

Classification under CLP:

Acute Tox. 4:	H302
Skin irritant 2:	H315
Eye irritant 2:	H319
STOT SE 3:	H335
Aquatic Acute 1:	H400
Chronic Category 3:	H412

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#### 2.2 Label Elements (In compliance with EC regulation No. 1272/2008 and its amendments)

Hazard pictograms:



Signal word:

Warning

#### H-Statements

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

#### Precautionary-Statements

P261	Avoid breathing spray
P280	Wear protective gloves and eye/face protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P391	Collect Spillage

#### 2.3 Other hazards

Further hazards were not determined with the current level of knowledge

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

**Product type:** This product is a mixture

CAS No.	EEC No.	Substance Name	Classification*	Range (%)
51503-61-8	-	Diammonium hydrogen phosphite	Acute Tox. 4: H302 Skin Irrit 2: H315 Eye Irrit 2: H319 STOT SE 3: H335	15 - 35
13977-65-6	-	Monopotassium phosphonate	Eye Irrit 2: H319	5-20
64-19-7	200-580-7	Acetic acid	Skin Corr. 1A: C ≥ 90 %: H314 Skin Corr. 1B: 25 % ≤ C < 90 %: H314 Skin Irrit. 2: 10 % ≤ C < 25 %: H315 Eye Irrit. 2: 10 % ≤ C < 25 %: H319 Flam. Liq. 3: H226	< 5
1336-21-6		Ammonium hydroxide	Skin Irrit 2: H315	< 5

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	-		Aquatic Acute 1: H400	
1314-13-2	215-222-5	Zinc oxide	Aquatic Acute 1: H400 Aquatic Chronic 3: H412	< 5

\*For full text of H statements see Section 16

#### Section 4: First Aid Measures

##### 4.1 Description of first aid measures

<b>Inhalation:</b>	Remove casualty from exposure ensuring one's own safety whilst doing so. Ensure supply of fresh air. Consult a doctor.
<b>Skin contact:</b>	Remove all contaminated clothes and footwear immediately unless stuck to the skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
<b>Eye contact:</b>	Remove contact lenses, if present and easy to do so. Bathe the eye with running water for 15 minutes. Consult a doctor.
<b>Ingestion:</b>	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

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

<b>Inhalation:</b>	There may be irritation of the throat with a feeling of tightness in the chest.
<b>Skin contact:</b>	There may be irritation and redness at the site of contact.
<b>Eye contact:</b>	There may be irritation and redness. The eyes may water profusely.
<b>Ingestion:</b>	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
<b>Delayed/immediate effects:</b>	Immediate effects can be expected after short-term exposure.

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

**Immediate/special treatment:** Not applicable. Treat symptomatically

#### Section 5: Firefighting Measures

##### 5.1 Extinguishing media

<b>Suitable:</b>	Foam, dry powder, water spray jet, carbon dioxide
<b>Unsuitable:</b>	Full water jet

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

<b>Exposure hazards:</b>	Risk of formation of toxic pyrolysis products: Carbon monoxide (CO), Phosphorous oxides (PO <sub>x</sub> ), Nitrogen oxides (NO <sub>x</sub> )
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##### 5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin or eyes. Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations.

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#### Section 6: Accidental release measures

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

**Personal precautions:** Refer to Section 8 of the SDS. If outside do not approach from downwind and keep bystanders away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent escape of liquid. High risk of slipping due to leakage/spillage of product. Use personal protective equipment.

##### 6.2 Environmental Precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding to prevent spread over a wide area.

##### 6.3 Methods for cleaning up

**Clean-up procedures:** Absorb into an absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Transfer to a closable, labelled salvage container for disposal in accordance with local regulations.

##### 6.4 Reference to other sections

**Reference to other sections:** Refer to Section 8 of the SDS.

#### Section 7: Handling and Storage

##### 7.1 Precautions for safe handling

**Handling:** The normal safety precautions for handling chemicals must be observed. Avoid direct contact with the substance. Use only in well ventilated areas. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Use skin barrier cream.

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

**Storage conditions:** Store in cool, dry, well ventilated area. Keep container tightly closed. Do not store together with animal feed/diet. Protect from frost. The floor of the storage area must be impermeable to prevent the escape of liquids.

**Suitable packaging:** Must only be kept in original packaging.

##### 7.3 Specific end use(s)

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

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

##### 8.1 Control parameters

**Workplace exposure limits:** No data available  
**DNEL/PNEC:** No data available

##### 8.2 Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.  
**Environmental:** Comply with applicable environmental regulations limiting discharge to air, water and soil. Prevent from entering public sewers.  
**Hand protection:** Use impermeable gloves.  
**Eye protection:** Safety glasses. Ensure eye bath is to hand.  
**Skin protection:** Impermeable protective clothing.  
**Respiratory protection:** Use self-contained breathing apparatus in the event of aerosol or mist formation.  
**Thermal hazards:** Not applicable

#### Section 9: Physical and Chemical Properties

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

<b>Form/state</b>	Liquid	<b>Explosion limit</b>	No data available
<b>Colour</b>	Clear	<b>Oxidizing properties</b>	No data available
<b>Odour</b>	Faint, slightly sweet	<b>Vapour pressure</b>	No data available
<b>pH</b>	6.9	<b>Density</b>	1.23 g/ml
<b>Melting point</b>	No data available	<b>Solubility in water</b>	Miscible
<b>Freezing point</b>	No data available	<b>Part. Coeff. N-octanol/water</b>	No data available
<b>Boiling point</b>	100°C	<b>Viscosity</b>	No data available
<b>Flash point</b>	>100°C(aqueous solution)	<b>Auto-ignition temperature</b>	No data available
<b>Evaporation rate</b>	No data available	<b>VOC, g/l</b>	No data available
<b>Flammability</b>	No data available		

##### 9.2 Other information

**Other information:** No data available

#### Section 10: Stability and Reactivity

##### 10.1 Reactivity

**Reactivity:** No dangerous reactions known if used as directed.

##### 10.2 Chemical stability

**Chemical stability:** Stable under normal ambient conditions.

##### 10.3 Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on reaction with strong oxidising agents, strong acids and alkalines.

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#### 10.4 Conditions to avoid

**Conditions to avoid:** Strong heating.

#### 10.5 Incompatible materials

**Materials to avoid:** Strong oxidising agents, strong acids and alkalines.

#### 10.6 Hazardous decomposition products

**Decomp. Products:** In the event of fire, see Section 5.

### Section 11: Toxicological Information

#### 11.1 Acute toxicity

Acute toxicity:	Oral LD <sub>50</sub> = 1568 mg/kg
Eye damage/irritation:	Irritant
Respiratory or Skin irritation:	Irritant
Skin sensitisation:	Not determined
STOT (single exposure):	Irritant
STOT (repeated):	Not determined
Germ cell mutagenicity:	Not determined
Carcinogenicity:	Not determined
Reproductive and lactation toxicity:	Not determined
Aspiration hazard:	Not determined

#### **General remarks**

May cause respiratory tract irritation.

The product was classified on the basis of calculation procedure of the CLP Regulation. Toxicological data of complete product are not available.

### Section 12: Ecological Information

#### 12.1 Toxicity

##### **General remarks**

The product was classified on the basis of calculation procedure of the CLP Regulation. Ecological data of complete product are not available.

#### 12.2 Persistence and degradability

**Persistence/biodegradability:** Not readily biodegradable.

#### 12.3 Bio accumulative potential

**Bioaccumulative potential:** No data available.

#### 12.4 Mobility in soil

**Mobility:** No data available.

#### 12.5 Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance

#### 12.6 Other adverse effects

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Ecological data of complete product are not available. Based on the calculation procedure of the CLP Regulation:

Aquatic Acute 1: H400 Very toxic to aquatic life

Chronic Category 3: H412 Harmful to aquatic life with long lasting effects

#### **Section 13: Disposal Considerations**

##### **13.1 Waste treatment methods**

**Disposal procedure:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Dispose of as normal industrial waste at an approved site.

**N.B.:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### **Section 14: Transport Information**

##### **14.1 UN Number**

**UN number:** UN 3082

##### **14.2 UN proper shipping name**

**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

##### **14.3 Transport hazard classes**

**Transport class:** 9

##### **14.4 Packing group**

**Packing group:** 3

##### **14.5 Environmental hazards**

**Environmentally hazardous:** Yes

##### **14.6 Special precautions for user**

**Special precautions:** No special precautions. See relevant information in Sections 6 to 8

#### **Section 15: Regulatory Information**

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

**Specific regulations:** Not applicable

##### **15.2 Chemical Safety Assessment**

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

#### **Section 16: Other Information**

**Phrases in Sections 2-3:** H302 Harmful if swallowed

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H314 Causes severe skin burns and eye damage  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H400 Very Toxic to Aquatic life  
H412 Harmful to aquatic life with long lasting effects  
H226 Flammable liquid and vapour

Other information: This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006

Abbreviations: CLP: Classification, Labelling and Packaging  
DNEL: Derived No Effect Level  
LC50: Lethal concentration, 50%  
LD50: Median lethal dose  
PBT: Persistent, Bioaccumulative and Toxic substance  
PNEC: Predicted No-Effect Concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
VOC: Volatile Organic Compound  
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.