



According to EC Regulations No. 453/2010 (REACH), 1272/2008 (CLP) & 453/2010

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

### 1.1. Product identifier

Trade name                      Albina  
Product code                    LEV2016-06  
REACH registration No.        Not applicable

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

Identified use(s)                Use as a multipurpose fertiliser concentrate  
  
Uses advised against            Not suitable for use as a ready to use product

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

Supplier name:                  Levity Crop Science Ltd  
Supplier address:                Levity Crop Science Ltd  
  The Rural Business Centre  
  Myerscough College  
  Bilsborough  
  United Kingdom  
  PR3 0RY

Supplier telephone:            +44 (0) 1995 642351  
Email:                              info@levitycropscience.com

### 1.4. Emergency telephone number

Emergency phone No.        +44 (0) 1995 642351      (GMT English spoken, Mon-Fri – 08:00 – 17:00)

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

2.1.1. Regulation (EC) No.1272/2008 (CLP)	Acute toxicity, Oral (Category 4) Serious eye irritation (Category 2) Chronic aquatic toxicity (Category 3)
2.2.2. Directives 67/548/EEC, 1999/45/EC	Harmful if swallowed (Xn) Irritating to eyes (Xi) Harmful to aquatic organisms with long-term adverse effects

### 2.2. Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]



CLP Hazard Pictograms:

Signal Word(s): **Danger**  
Hazard Statements:

H302 Harmful if swallowed  
H319 Causes serious eye irritation  
H412 Harmful to aquatic life with long lasting effects

Precautionary Statements:

P264 Wash hands thoroughly after handling this product  
P280 Wear eye protection  
P301 + P312 **IF SWALLOWED:** Call a POISON CENTRE or doctor/physician if you feel unwell  
P305 + P351 + P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 **If eye irritation persists:** Get medical advice/attention  
P501 Dispose of contents in accordance with local regulations, dispose of container to appropriate domestic recycling stream

**According to European Directive 67/548/EEC as amended.**



Hazard symbol(s):

Risk phrases:

Xn; R22 Harmful if swallowed  
Xi; R36 Irritating to eyes  
R52/53 Harmful to aquatic organisms with long-term adverse effects

Safety phrases:

S13 Keep away from food, drink and animal feeding-stuffs  
S24/25 Avoid contact with skin and eyes  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention  
S28 After contact with skin, wash immediately with plenty of water  
S39 Wear eye protection  
S46 If swallowed, seek medical advice immediately and show this document

**2.3. Other hazards**

This product has not been tested for PBT or vPvB

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

**3.2. Mixtures**

EC Classification No 1272/2008

Hazardous ingredient(s)	%w/w	CAS no	EC no	REACH Registration no	H statements
Water	0 – 30	7732-18-5	231-791-2	-	-
Calcium nitrate dihydrate	50 – 95	13477-34-4	-	01-2119463277-33-####	H272, H302, H319
Zinc nitrate hexahydrate	3 – 10	10196-18-6	231-943-8	01-2119488498-16-####	H272, H302, H315, H319, H335, H400, H411
Phenol, ethoxylated, >2.5 moles EO	1 – <3	9004-78-8	931-997-9	-	H302

EEC Classification No 67/548/EEC

Hazardous ingredient(s)	%w/w	CAS no	EC no	REACH Registration no	Risk Phrases
Water	0 – 30	7732-18-5	231-791-2	-	-
Calcium nitrate dihydrate	50 – 95	13477-34-4	-	01-2119463277-33-####	R8, R22, R36
Zinc nitrate hexahydrate	3 – 10	10196-18-6	231-943-8	01-2119488498-16-####	R8, R22, R36/37/38, R51/53
Phenol, ethoxylated, >2.5 moles EO	1 – <3	9004-78-8	931-997-9	-	R22

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**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**4.1.1. First aid instructions.**

If inhaled: Move person into fresh air, rest and seek medical advice. Monitor for respiratory distress

If on skin (or hair): Wash affected skin with plenty of soap and water. Wash clothes before reuse



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If in eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open. Remove contact lenses if possible. Seek medical advice

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth and throat. Do not induce vomiting. Drink 1-2 glasses of water. Consult a physician

Other first aid advice: If vomiting occurs spontaneously, keep airways clear. Give more water when vomiting stops

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

If inhaled: Inhalation of mist or vapours may cause irritation and a burning sensation to mucous membranes and upper respiratory tract. Symptoms may include irritation, coughing and tightness of breath

If on skin (or hair): Where not washed exposure may result in slight redness and irritation. Irritation may occur to skin when already sore or dry according to contact time.

If in eyes: Exposure to eyes will result in immediate pain and tearing. Burns to the eye may occur if not washed promptly

If swallowed: Ingestion may cause abdominal pain, vomiting and diarrhoea. Large doses of calcium nitrate can cause renal stones, hypercalcemia, metabolic alkalosis and methemoglobinemia.

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

Medical treatment: Hypercalcemia can be treated with saline hydration; the salt content of this product should be considered when deciding a treatment regime. Activated carbon may be administered when treating after ingestion of methemoglobinemia causing substances.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: All extinguishing agents permitted

Unsuitable extinguishing media: None known

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

Hazardous combustion products: Oxides of calcium, zinc, carbon and nitrogen

Other special hazards during fire: None known

### 5.3. Advice for firefighters

Protective actions during firefighting: Wear self-containing breathing apparatus



Special protective equipment for firefighters: No special instructions

Other advice: Not applicable

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## SECTION 6: Accidental release measures

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

Non-emergency personnel PPE See section 8.2

Emergency responders PPE See section 8.2

Controlling risks from accidental release: Avoid contact with strong bases and reducing agents

Emergency procedures: Evacuate personnel to safe areas.

### 6.2. Environmental precautions

Keep accidental releases away from: Drains, water courses, soil and open ground. Discharge to ground, water courses or drains can cause eutrophication

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

Containing a spill: Mop up and contain with absorbent materials

Cleaning up a spill Mop spills, recycle where possible

Other information on spill handling: Dilute with water. Capture with absorbent material. Recycle where possible

### 6.4. Reference to other sections

References to other sections: See section 8.2 for personal protective equipment. See section 13.1 for disposal considerations

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Safe handling recommendations: Wash hands and exposed skin before meals and after use. Wear gloves when handling the product over long periods of time

Handling incompatibles: Do not use with strong bases or reducing agents

Reducing environmental risk: Do not discharge into drains or water courses

Occupational hygiene advice Wash hands after using this product and before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas

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

### Safe storage: managing risks during storage:

Explosive atmospheres formed during storage:	Not applicable
Corrosive conditions during storage:	Not applicable
Flammability hazards during storage:	Not applicable
Incompatible substances or mixtures:	Incompatible with strong bases or reducing agents
Evaporative conditions:	Not applicable
Potential ignition sources, including electrical equipment:	Not applicable

### Safe storage: controlling effects of ambient conditions:

Weather conditions:	Do not store outside uncontained
Ambient pressure:	Not applicable
Temperature:	Do not allow product to freeze or exceed 30°C
Sunlight:	Keep out of direct sunlight
Humidity:	Not applicable
Vibration:	Not applicable

### Safe storage: maintaining the integrity of the product:

Stabilisers:	Stabilisers are not used in this product
Antioxidants:	Antioxidants are not used in this product

### Safe storage: other advice:

Ventilation requirements for storage:	No specific ventilation requirements
Specific designs for storage rooms or vessels:	No specific design criteria on storage areas apart from normal regulatory requirements for substances of this type
Quantity limits under storage conditions:	Not applicable
Suitable packaging for the substance:	Keep in original container. On prolonged exposure may be corrosive to aluminium, copper, carbon steel and stainless steel

## 7.3. Specific end use(s)



Uses: Use as a fertiliser concentrate for cereal crops, soft fruit, fruit and vegetables

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

- |   |                |
|---|----------------|
| 8.1.1 Occupational exposure limits:                               | Not applicable |
| 8.1.2 Biological Limit Values:                                    | Not applicable |
| 8.1.3 Current recommended monitoring procedures:                  | Not applicable |
| 8.1.4 Air contaminants formed when using the product as intended: | Not applicable |
| 8.1.5. PNECs and DNELs  | Not applicable |

### 8.2. Exposure controls

- 8.2.1. Appropriate engineering controls: Handle in accordance with good industrial hygiene
- 8.2.2. Personal Protection Equipment
- |                        |  |
|------------------------|--|
| Eye protection:        | Use safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)   |
| Face protection:       | Not required   |
| Hand protection:       | When handling the product over an extended period of time use nitrile, latex or rubber gloves, which satisfy the specifications of EU Directive 89/686/EEC and the standard EN 420 derived from it |
| Other skin protection  | Do not wear open footwear  |
| Respiratory protection | Not required   |
| Thermal hazards        | Not required   |
- 8.2.3. Environmental exposure controls: Do not release substance to drains or surface water

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## SECTION 9: Physical and chemical properties

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

- |                 |                     |
|-----------------|---------------------|
| Appearance:     | Clear Orange liquid |
| Physical state: | Liquid              |
| Colour:         | Orange              |
| Odour:          | Slightly sweet      |



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Odour threshold:	Data not available
pH:	3 - 4
Melting point:	Data not available
Freezing point:	<0°C
Initial boiling point:	Aqueous component will boil at 100°C
Boiling range:	Data not available
Flash point:	Data not available
Flash point method:	Data not available
Evaporation rate:	Data not available
Flammability (if solid or gas):	Data not available
Upper and lower flammability or explosive limits:	Data not available
Vapour pressure:	Data not available
Vapour density:	Data not available
Relative density:	1.5 – 1.55 g/cm <sup>3</sup> at 20°C
Solubility(ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available
Explosive properties	Data not available
Oxidising properties	Data not available
9.2. Other information	Data not available

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## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Can react with strong bases and reducing agents
<b>10.2. Chemical stability</b>	Product is stable under anticipated storage and handling conditions
<b>10.3. Possibility of hazardous reactions</b>	Substance not known to react and/or polymerise



- 10.4. Conditions to avoid** Excessive heat (to water boiling point), mixing with alkalis
- 10.5. Incompatible materials** Reducing and alkaline materials
- 10.6. Hazardous decomposition products** No known hazardous decomposition products known

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	Oral (rat) – LD50; >2,000 mg/kg body weight (extrapolated from constituent components)
Skin corrosion/irritation	Anticipated to be irritating to skin
Serious eye damage/irritation	Classified as irritating to the eyes
Respiratory or skin sensitisation	Data not available
Germ cell mutagenicity	Data not available
Carcinogenicity	Data not available
Reproductive toxicity	Data not available
STOT-repeated exposure;	Data not available
<b>11.2. Other information</b>	No other information

## SECTION 12: Ecological information

### 12.1. Toxicity

No specific data available from tests performed on this product. Data below has been extrapolated from constituent components

Species	Test	Value
Rainbow trout ( <i>Oncorhynchus mykiss</i> )	LC50 96H	38.8 mg/L
Water flea ( <i>Daphnia magna</i> )	EC50 48H	3.6 mg/L

- 12.2. Persistence and degradability** Data not available
- 12.3. Bioaccumulative potential** Data not available
- 12.4. Mobility in soil** Data not available
- 12.5. Results of PBT and vPvB assessment** Data not available
- 12.6. Other adverse effects**
- Environmental fate Data not available



Photochemical ozone creation potential	Data not available
Ozone depletion potential	Data not available
Endocrine disrupting potential	Data not available
Global warming potential	Data not available

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

This material, if discarded as produced, is not classified as a hazardous waste

Waste treatment containers to be used for product include IBCs or drums  
Recycle material where possible. If heavily soiled or disposal judged as necessary dispose to landfill in accordance with the Directive on waste 2008/98/EC

No specific waste treatment containers to be used for contaminated packaging, packaging should be recycled where possible. Waste treatment method for contaminated packaging should include a rinse with water. Dilute washings should be recycled where possible

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## SECTION 14: Transport information

14.1. UN number	Not applicable	
14.2. UN proper shipping name	ADR/RID	Not dangerous goods
	IMDG	Not dangerous goods
	IATA	Not dangerous goods
14.3. Transport hazard class(es)	Not applicable	
14.4. Packing group	Not applicable	
14.5. Environmental hazards	Not applicable	
14.6. Special precautions for user	Not applicable	
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable	

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## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Ozone depleting substance (EC No 2037/2000):	Not applicable
Persistent organic pollutants (EC No 850/2004)	Not applicable
Export and import of dangerous chemicals (EC No 689/2008)	Not applicable



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COMAH/ Seveso II categories or named substance	Not applicable
REACH Authorisations and/or Restrictions	Not applicable
Any other relevant Safety, health and environmental regulations:	Not applicable
15.2. Chemical safety assessment	A chemical safety assessment has not been carried out for this product

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## SECTION 16: Other information

a) Changes made to SDS:

New safety datasheet

b) Key (or legend)

PPE	Personal Protective Equipment
LD50	Lethal Dosage affecting 50% of sample population
EC50	Effective Concentration affecting 50% of sample population

c) Literature references

European Chemicals Agency:

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

The Royal Children's Hospital Melbourne:

[http://www.rch.org.au/clinicalguide/guideline\\_index/Iron\\_Poisoning/](http://www.rch.org.au/clinicalguide/guideline_index/Iron_Poisoning/)

Cole Palmer Chemical Resistance Database:

<http://www.coleparmer.co.uk/Chemical-Resistance>

Chem One Ltd. – Incompatibility List:

<http://www.chemone.com/default/other/chemical%20incompatibility%20list.pdf>

Agency for Toxic Substance and Disease Registry – Nitrate/Nitrite Toxicity:

<http://www.atsdr.cdc.gov/csem/csem.asp?csem=28&po=13>

NLM – Toxicology Data Network:

<https://www.nlm.nih.gov/>

Last accessed (25/01/2016)

Some physical properties reported from direct laboratory testing performed at Grotech Production Ltd

Some data has been derived from constituent safety datasheets

d) Details of relevant hazard information

H272	May cause fire or explosion; strong oxidiser
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment



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P280	Wear eye protection
P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P330	Rinse mouth
P337 + P313	If eye irritation persists: Get medical advice/attention
P501	Dispose of contents in accordance with local regulations, dispose of container to appropriate domestic recycling stream
R8	Contact with combustible material may cause fire
R22	Harmful if swallowed
R36/37/38	Irritating to skin, respiratory system and eyes
R51/53	Toxic to aquatic organisms, may cause long term adverse effects in the environment
R52/53	Harmful to aquatic organisms, may cause long term adverse effects in the environment
S13	Keep away from food, drink and animal feeding-stuffs
S24/25	Avoid contact with skin and eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical attention
S28	After contact with skin, wash immediately with plenty of water
S39	Wear eye protection
S46	If swallowed, seek medical advice immediately and show this document

e) Appropriate training for workers

Training for spillage handling and chemical handling is recommended

f) Classification method:

CLP classification, CHIP classification

**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. This company shall not be held liable for any damage resulting from handling or from contact with the above product.