

## DABQUEL COMPLEX 300 P

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

#### 1.1. Product identifier

Trade name : DABQUEL COMPLEX 300 P  
Synonyms : Mixture of complexed micronutrients  
Product code : 404150

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Agriculture.

##### 1.2.2. Uses advised against

No additional information available

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

SA DABEER  
P.I. Santiga. Pasaje Arrahona 18-2º, local A.  
08210 Barberà del Vallès - SPAIN  
T +34 93 719 53 59 - F +34 93 718 56 73  
[reach@dabeer.es](mailto:reach@dabeer.es) - [www.dabeer.es](http://www.dabeer.es)

#### 1.4. Emergency telephone number

Emergency number : +34 93 729 32 77  
(Office hours)

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

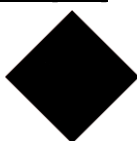
##### Adverse physicochemical, human health and environmental effects

Not classified.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



Black

No labelling applicable

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Comments : Glucoheptonic acid (HGA) metal complexes  
See product bulletin for detailed information

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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First-aid measures after inhalation	: Allow breathing of fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media : Foam. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream. powder, carbon dioxide.

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

No additional information available

**5.3. Advice for firefighters**

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

**6.4. Reference to other sections**

See Heading 8. Exposure controls and personal protection.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

No additional information available

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**8.2. Exposure controls**

Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves
Eye protection	: Chemical goggles or safety glasses
Respiratory protection	: Wear appropriate mask



Other information : Do not eat, drink or smoke during use.

**SECTION 9: Physical and chemical properties**

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

**Information on basic physical and chemical properties: DABQUEL COMPLEX 300 P**

Physical state	: Solid
Colour	: Brown
Odour	: odourless.
Odour threshold	: No information available
pH	: 6.5-7.0 (Aqueous solution 1%, 20°C)
Melting point	: Decomposes before melting
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 150 °C
Flammability (solid, gas)	: Not flammable
Vapour pressure	: Not applicable
Relative density	: See product bulletin for detailed information
Relative evaporation rate (ether=1)	: Not applicable
Solubility in water	: Water: > 500 g/l (20°C)
Log Pow	: No data available
Log Kow	: < 3
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Viscosity	: Not applicable

**9.2. Other information**

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under use and storage conditions as recommended in section 7.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Stable under use and storage conditions as recommended in section 7.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures. Avoid dust formation. Take precautionary measures against static discharges.

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**10.5. Incompatible materials**

Strong acids. Strong bases. Oxidizing agent. In the presence of humidity corrodes copper, zinc and numerous alloys. Avoid aluminium.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Information on toxicological effects:**

**Acute toxicity** : **Not classified**

LD50 oral rat	<p>Glucoheptonic acid (HGA) metal complexes:HGA Mn : LD50 oral &gt; 2000 mg/Kg (rat)/(Iron Gluconate Read-across)</p> <p>Glucoheptonic acid (HGA) metal complexes:HGA Zn LD50 oral &gt; 5000 mg/Kg (rat) Handbook of preservatives/(Zinc Gluconate read-across)</p>
LD50 dermal rabbit	No information available
LC50 inhalation rat (Vapours - mg/l/4h)	No information available

**Skin corrosion/irritation** : Glucoheptonic acid (HGA) metal complexes:HGA Mn  
: Not irritating to skin  
SIDS gluconates  
(gluconic acid Read-across)

Glucoheptonic acid (HGA) metal complexes:HGA Zn  
: Not irritating to skin  
SIDS gluconates  
(gluconic acid Read-across)

**Serious eye damage/irritation** : Glucoheptonic acid (HGA) metal complexes:HGA Mn  
: Not irritating to eyes  
SIDS gluconates  
(gluconic acid Read-across)

Glucoheptonic acid (HGA) metal complexes:HGA Zn  
: Not irritating to eyes  
SIDS gluconates  
(gluconic acid Read-across)

**Respiratory or skin sensitisation** : No information available

**Germ cell mutagenicity** : Based on available data, the classification criteria are not met  
Glucoheptonic acid (HGA) metal complexes:HGA Mn  
: (OECD 471& 473)  
SIDS gluconates  
(sodium gluconate Read-across)

Glucoheptonic acid (HGA) metal complexes:HGA Zn  
: (OECD 471& 473)  
SIDS gluconates  
(sodium gluconate Read-across)

**Carcinogenicity** : No information available

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<b>Reproductive toxicity</b>	: Based on available data, the classification criteria are not met Glucoheptonic acid (HGA) metal complexes:HGA Mn : NOAEL maternal toxicity> 4000 mg/kg bw SIDS gluconates (sodium gluconate Read-across)  Glucoheptonic acid (HGA) metal complexes:HGA Zn : NOAEL maternal toxicity> 4000 mg/kg bw SIDS gluconates (sodium gluconate Read-across)
<b>Specific target organ toxicity (single exposure)</b>	: Based on available data, the classification criteria are not met
<b>Specific target organ toxicity (repeated exposure)</b>	: Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	: Not applicable No data available
<b>Other information</b>	: (*) Available data used to identify those effects: <a href="http://apps.echa.europa.eu/registered/registered-sub.aspx">http://apps.echa.europa.eu/registered/registered-sub.aspx</a> .

**SECTION 12: Ecological information**

**Ecological information:**

**12.1. Toxicity**

LC50 fish 1	LC50 (96h) (Fish.): Glucoheptonic acid (HGA) metal complexes:HGA Mn No information available Glucoheptonic acid (HGA) metal complexes:HGA Zn No information available
LC50 other aquatic organisms 1	LC50 (96h) (algae): Glucoheptonic acid (HGA) metal complexes:HGA Mn No information available Glucoheptonic acid (HGA) metal complexes:HGA Zn No information available
EC50 Daphnia 1	LC50 (96h) (daphnia): Glucoheptonic acid (HGA) metal complexes:HGA Mn No information available Glucoheptonic acid (HGA) metal complexes:HGA Zn No information available

**12.2. Persistence and degradability**

Persistence and degradability	Readily biodegradable.
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**12.3. Bioaccumulative potential**

Log Kow	< 3
Bioaccumulative potential	No bioaccumulative potential.

**12.4. Mobility in soil**

Ecology - soil	Ionic structure under environmental relevant pH conditions.No adsorption onto the organic fraction of soil or sediments is expected.
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**12.5. Results of PBT and vPvB assessment**

Results of PBT assessment	Not classified
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**DABQUEL COMPLEX 300 P****12.6. Other adverse effects**

Other adverse effects : Avoid release to the environment.

(\*) Available data used to identify those effects: <http://apps.echa.europa.eu/registered/registered-sub.aspx>**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

**14.1. UN number**

Not regulated for transport

**14.2. UN proper shipping name**

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

**14.3. Transport hazard class(es)****ADR**

Transport hazard class(es) (ADR) : Not applicable

**IMDG**

Transport hazard class(es) (IMDG) : Not applicable

**IATA**

Transport hazard class(es) (IATA) : Not applicable

**ADN**

Transport hazard class(es) (ADN) : Not applicable

**RID**

Transport hazard class(es) (RID) : Not applicable

**14.4. Packing group**

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

**14.5. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

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**14.6. Special precautions for user**

**14.6.1. Overland transport**

**14.6.2. Transport by sea**

**14.6.3. Air transport**

**14.6.4. Inland waterway transport**

Carriage prohibited (ADN) : No

Not subject to ADN : No

**14.6.5. Rail transport**

Carriage prohibited (RID) : No

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other information**

Indication of changes:

SECTION 16.

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
IARC	International Agency for Research on Cancer
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
SDS	Safety Data Sheet
STP	Sewage treatment plant



according to Regulation (EC) No. 453/2010

## SAFETY DATA SHEET

Revision date:07/09/2020

Version: 4.0

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TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

### Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Commission Regulation (EC) No 790/2009-CLP 01ATP  
Commission Regulation (EC) No 286/2011-CLP 02ATP  
Commission Regulation (EC) No 618/2012- CLP 03ATP  
Commission Regulation (EC) No 487/2013-CLP 04ATP  
Commission Regulation (EC) No 944/2013-CLP 05ATP  
Commission Regulation (EC) No 605/2014-CLP 06ATP. Regulation (EC) Nr 1907/2006 of the European Parliament and of the Council of 18 December 2006.  
. SIDS sodium gluconate ([www.inchem.org/documents/sids/sids/gluconates.pdf](http://www.inchem.org/documents/sids/sids/gluconates.pdf)); IUCLID sodium gluconate.

### Other information

: **If you require the Exposure Scenarios (Annex I), please contact with our Commercial Department: [droca@dabeer.es](mailto:droca@dabeer.es).**

FDS EU (DABEER)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*