

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

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

#### 1.1 Product identifier

**Product name** CALCIUM LQD (22.5% CALCIUM)

**Other means of identification**

**Product code** 50001104

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

Use of the Sub- : Crop nutrition  
stance/Mixture

Recommended restrictions : Use as recommended by the label.  
on use

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

**Supplier Address**

FMC Chemicals (Pty) Ltd  
Company Registration No.: 1988/001451/07  
West End Office Park, Building C  
Cnr. West Ave & Hall Street  
Centurion  
0014  
South Africa

E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
South Africa: 080-001-4676 (CHEMTREC)

Medical emergency:  
For any emergency or poisoning contact: Griffon Poison Infor-  
mation Centre (24 hrs) - +27-(0)-82-446-8946

---

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4 H302: Harmful if swallowed.

Serious eye damage, Category 1 H318: Causes serious eye damage.

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version 1.0      Revision Date: 17.07.2025      SDS Number: 50001104      Date of last issue: -  
Date of first issue: 17.07.2025

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:  
nitric acid, ammonium calcium salt

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
nitric acid, ammonium calcium salt	15245-12-2 239-289-5	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 50 - < 70
magnesium nitrate	10377-60-3 233-826-7	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 1 - < 10
boric acid	10043-35-3 233-139-2	Repr. 1B; H360FD	>= 0.1 - < 0.3

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

	005-007-00-2		
--	--------------	--	--

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                            |   |
|----------------------------|---|
| General advice             | : Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.  |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection and use the recommended protective clothing<br>Avoid inhalation, ingestion and contact with skin and eyes.<br>If potential for exposure exists refer to Section 8 for specific personal protective equipment.  |
| If inhaled                 | : Move to fresh air.<br>If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.   |
| In case of skin contact    | : Take off all contaminated clothing immediately.<br>Wash contaminated clothing before re-use.<br>Wash off immediately with plenty of water for at least 15 minutes.<br>Get medical attention if irritation develops and persists.  |
| In case of eye contact     | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed               | : Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.  |

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

- |       |   |
|-------|---|
| Risks | : Harmful if swallowed.<br>Causes serious eye damage. |
|-------|---|

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

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

Treatment : Treat symptomatically.

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.  
High volume water jet

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Metal oxides  
Boron oxides  
Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

---

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.

### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Try to prevent the material from entering drains or water

---

**CALCIUM LQD (22.5% CALCIUM)**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

courses.

If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Never return spills in original containers for re-use. Collect as much of the spill as possible with a suitable absorbent material. Pick up and transfer to properly labelled containers. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

See sections: 7, 8, 11, 12 and 13.

---

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

Advice on safe handling : Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Keep away from combustible material.

Hygiene measures : Avoid contact with skin, eyes and clothing. Do not inhale aerosol. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : Do not store near acids.

Further information on storage stability : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

Specific use(s) : Crop nutrition

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version 1.0      Revision Date: 17.07.2025      SDS Number: 50001104      Date of last issue: -  
Date of first issue: 17.07.2025

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
nitric acid, ammonium calcium salt	Consumers	Oral	Acute systemic effects	10 mg/kg bw/day
boric acid	Workers	Inhalation	Long-term systemic effects	8.3 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	392 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4.15 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	196 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.98 mg/kg bw/day
	Consumers	Oral	Acute local effects	0.98 mg/kg bw/day

##### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
nitric acid, ammonium calcium salt	Sewage treatment plant	18 mg/l
magnesium nitrate	Sewage treatment plant	18 mg/l
boric acid	Fresh water	2.9 mg/l
	Marine water	2.9 mg/l
	Sewage treatment plant	10 mg/l
	Soil	5.7 mg/kg dry weight (d.w.)
	Intermittent use (freshwater)	13.7 mg/l

#### 8.2 Exposure controls

##### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Face-shield

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concen-

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

tration of the dangerous substance at the work place.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Protective measures : Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions. Ensure that eye flushing systems and safety showers are located close to the working place. Wear suitable protective equipment.

### SECTION 9: Physical and chemical properties

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

Physical state	: liquid
Colour	: yellow
Odour	: characteristic
Odour Threshold	: No data available
pH	: 1.5 - 3.0
	Concentration: 100 %
Melting point/ range	: No data available
Boiling point/boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 1.48 - 1.51
Density	: No data available
Bulk density	: No data available
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: Non-oxidizing

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

### 9.2 Other information

Molecular weight	:	Not applicable
Particle size	:	Not applicable
Particle Size Distribution	:	Not applicable
Self-ignition	:	No data available

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

Conditions to avoid : Avoid extreme temperatures  
Avoid formation of aerosol.

### 10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: 936.84 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

#### Components:

nitric acid, ammonium calcium salt:



# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

Acute oral toxicity : LD50 (Rat, female): 300 - 2,000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute dermal toxicity : LD0 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: no mortality

### **magnesium nitrate:**

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402

### **boric acid:**

Acute oral toxicity : LD50 (Rat, male): > 2,600 mg/kg  
Method: OECD Test Guideline 401  
Remarks: no mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 2.03 mg/l  
Exposure time: 5 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Remarks: no mortality

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

### **Product:**

Assessment : Not classified as irritant  
Result : Mild skin irritant  
Remarks : May cause skin irritation and/or dermatitis.

Remarks : Extremely corrosive and destructive to tissue.

### **Components:**

#### **nitric acid, ammonium calcium salt:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Based on data from a similar product.

#### **magnesium nitrate:**

Species : Rabbit

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Remarks	:	Based on data from similar materials

### **boric acid:**

Species	:	Rabbit
Result	:	No skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Product:**

Assessment	:	Risk of serious damage to eyes.
Result	:	Risk of serious damage to eyes.
Remarks	:	May cause irreversible eye damage.
Remarks	:	May cause irreversible eye damage.

### **Components:**

#### **nitric acid, ammonium calcium salt:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye
Species	:	Bovine cornea
Method	:	OECD Test Guideline 437
Result	:	No eye irritation

#### **magnesium nitrate:**

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Eye irritation

#### **boric acid:**

Species	:	Rabbit
Result	:	slight irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Based on available data, the classification criteria are not met.

#### **Respiratory sensitisation**

Based on available data, the classification criteria are not met.

### **Product:**

Remarks	:	No data available
---------	---	-------------------

**CALCIUM LQD (22.5% CALCIUM)**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

**Components:****nitric acid, ammonium calcium salt:**

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitisation.

**magnesium nitrate:**

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitisation.

**boric acid:**

Test Type	: Buehler Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Components:****nitric acid, ammonium calcium salt:**

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative

Germ cell mutagenicity- Assessment	: In vitro tests did not show mutagenic effects
------------------------------------	---

**magnesium nitrate:**

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects

### **boric acid:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative

Test Type: sister chromatid exchange assay  
Result: negative

Test Type: gene mutation test  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Oral  
Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **Carcinogenicity**

Based on available data, the classification criteria are not met.

#### **Components:**

### **boric acid:**

Species : Mouse, male and female  
Application Route : Oral  
Exposure time : 103 weeks  
Dose : 0, 446, 1150mg/kg/bw/day  
: > 1,150 mg/kg bw/day  
Result : negative

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

#### **Components:**

### **nitric acid, ammonium calcium salt:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 250, 750, 1,500mg/kg/day  
General Toxicity - Parent: NOAEL: >= 1,500 mg/kg bw/day

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version 1.0	Revision Date: 17.07.2025	SDS Number: 50001104	Date of last issue: - Date of first issue: 17.07.2025
----------------	------------------------------	-------------------------	--

Method: OECD Test Guideline 422  
Result: negative

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Oral  
Dose: 0, 250, 750, 1,500mg/kg/day  
Duration of Single Treatment: 53 d  
General Toxicity Maternal: NOAEL:  $\geq 1,500$  mg/kg bw/day  
Developmental Toxicity: NOAEL:  $\geq 1,500$  mg/kg bw/day  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### **magnesium nitrate:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 250, 750, and 1,500 milligram per kilogram  
Duration of Single Treatment: 28 d  
General Toxicity - Parent: NOAEL:  $> 1,500$  mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Species: Rat  
Application Route: Oral  
Dose: 0, 250, 750, and 1,500 milligram per kilogram  
Duration of Single Treatment: 28 d  
General Toxicity Maternal: NOAEL:  $> 1,500$  mg/kg body weight  
Developmental Toxicity: NOAEL:  $> 1,500$  mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### **boric acid:**

Effects on fertility : Test Type: Three-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 5.9, 17.5, 58.5(mgb)/kg/bw/d  
General Toxicity - Parent: LOAEL: 58.5 mg/kg bw/day  
General Toxicity F1: LOAEL: 58.5 mg/kg bw/day  
General Toxicity F2: LOAEL: 58.5 mg/kg bw/day  
Result: negative

Effects on foetal development : Test Type: reproductive and developmental toxicity study

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

ment

Species: Rat  
Application Route: Oral  
Dose: 3.3, 6.3, 9.6, 13.3, 25mg/kg  
General Toxicity Maternal: LOAEL: 13.3 mg/kg bw/day  
Embryo-foetal toxicity: NOAEL:  $\geq$  12.9 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

### STOT - single exposure

Based on available data, the classification criteria are not met.

#### Components:

##### **nitric acid, ammonium calcium salt:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

Based on available data, the classification criteria are not met.

#### Components:

##### **magnesium nitrate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### **boric acid:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Components:

##### **nitric acid, ammonium calcium salt:**

Species : Rat, male and female  
NOAEL :  $\geq$ 1000 mg/kg bw/day  
Application Route : Oral  
Exposure time : 28 d  
Dose : 50, 150, 1000 mg/kg bw  
Method : OECD Test Guideline 407

##### **magnesium nitrate:**

Species : Rat, male and female  
NOAEL :  $>$  1,500 mg/kg  
Application Route : Oral  
Exposure time : 28d  
Dose : 0, 250, 750, 1,500 mg/kg/day

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

Method : OECD Test Guideline 422  
Remarks : Based on data from similar materials

### **boric acid:**

Species : Rat, male and female  
LOAEL : 58.5 mg/kg bw/day  
Application Route : Oral - feed  
Exposure time : 2 years  
Dose : 0, 5.9, 17.5, 58.5mg/kg/bw/d

Species : Rat, female  
NOAEC : 0.47 mg/l  
Application Route : inhalation (dust/mist/fume)  
Dose : 0.077, 0.175, 0.47 mg/l

### **Aspiration toxicity**

Based on available data, the classification criteria are not met.

### **Further information**

#### **Product:**

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Components:**

##### **nitric acid, ammonium calcium salt:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 95 - 102 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100  
plants  
mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 100  
mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 180 min  
Method: OECD Test Guideline 209

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

Toxicity to fish (Chronic toxicity) : NOEC: 157 mg/l  
Exposure time: 30 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: flow-through test  
Remarks: Based on data from similar materials

### **magnesium nitrate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

LC50 (Poecilia reticulata (guppy)): 1,378 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

LC50 (Cyprinus carpio (Carp)): 95 - 102 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (diatoms): > 1,700 mg/l  
Exposure time: 10 d  
Test Type: static test  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: 58 mg/l  
Exposure time: 30 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: flow-through test  
Remarks: Based on data from similar materials

NOEC: 157 mg/l  
Exposure time: 32 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: flow-through test  
Remarks: Based on data from similar materials

### **boric acid:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 79.7 mg/l  
Exposure time: 96 h



# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

Test Type: static test  
Remarks: Based on data from similar materials

LC50 (Limanda limanda): 74 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 102 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 40.2 mg/l  
Exposure time: 74.5 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 17.5 mg/l  
Exposure time: 74.5 h  
Method: OECD Test Guideline 201

LOEC : 3.6 mg/l  
Exposure time: 10 d  
Test Type: semi-static test

Toxicity to microorganisms : EC50 (activated sludge): > 175 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

NOEC (activated sludge): 17.5 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 6.4 mg/l  
Exposure time: 34 d  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 6.4 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test

Toxicity to soil dwelling organisms : LC50: > 175 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207

NOEC: >= 175 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **boric acid:**

Bioaccumulation : Species: Fish  
Exposure time: 60 d  
Bioconcentration factor (BCF): < 0.1

Partition coefficient: n-octanol/water : log Pow: -1.09 (22 °C)

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Waste disposal code: 02 01 08 agrochemical waste containing dangerous substances.

---

### SECTION 14: Transport information

#### 14.1 UN number

UNRTDG : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

UNRTDG : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

UNRTDG : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.4 Packing group

UNRTDG : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA (Cargo) : Not regulated as a dangerous good  
IATA (Passenger) : Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

---

### SECTION 15: Regulatory information

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

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version 1.0	Revision Date: 17.07.2025	SDS Number: 50001104	Date of last issue: - Date of first issue: 17.07.2025
----------------	------------------------------	-------------------------	--

---

### The components of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
AIIC	: All components are listed on the inventory, regulatory obligations/restrictions apply
DSL	: This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
TECI	: Not in compliance with the inventory

### 15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

---

## SECTION 16: Other information

### Full text of H-Statements

H272	: May intensify fire; oxidizer.
H302	: Harmful if swallowed.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H360FD	: May damage fertility. May damage the unborn child.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Ox. Sol.	: Oxidizing solids
Repr.	: Reproductive toxicity

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Acute Tox. 4	H302
Eye Dam. 1	H318

#### Classification procedure:

Calculation method
Based on product data or assessment

### Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to ensure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

### Prepared by

# SAFETY DATA SHEET



## CALCIUM LQD (22.5% CALCIUM)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.07.2025	50001104	Date of first issue: 17.07.2025

---

FMC Corporation

FMC and the FMC Logo are trademarks of FMC Corporation and/or an affiliate.

© 2021-2025 FMC Corporation. All Rights Reserved.

ZA / 6N