

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.07.2019

Version number 1.00

Revision: 10.07.2019

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

- **Product identifier**
- **Trade name: Nitcal**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Concrete/Mortar admixtures
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Ha-Be Middle East Oman LLC  
P.O. Box 32 | Postal Code 118 | Muscat - Sultanate of Oman  
Phone: +968 24181713  
office.oman@ha-be.com | www.om.ha-be.com  
  
Ha-Be Middle East FZE  
SAIF Zone | P.O. Box 9583 | Sharjah - UAE  
Phone: +971 6 557 28 30 | Fax +971 6 55728 60  
office.uae@ha-be.com | www.ha-be.ae  
  
Ha-Be Qatar | Concrete Additives Company W.L.L  
P.O. Box 500596 | Doha – Qatar  
Phone: +974 44691210 | Fax: +974 44165280  
office.qatar@ha-be.com | www.qa.ha-be.com
- **Further information obtainable from:** office.uae@ha-be.com
- **Emergency telephone number:**  
0049 5151 587-0  
Only available during office hours.

## 2 Hazards identification

- **Classification of the substance or mixture**



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 5 H333 May be harmful if inhaled.

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

calcium nitrate tetrahydrate

- **Hazard statements**

Harmful if swallowed.

May be harmful if inhaled.

Causes serious eye damage.

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 10.07.2019

Version number 1.00

Revision: 10.07.2019

**Trade name: Nitcal**

(Contd. of page 1)

**- Precautionary statements**

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear eye protection / face protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Rinse mouth.



IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

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.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**- Other hazards****- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**3 Composition/information on ingredients****- Chemical characterisation: Mixtures****- Description:** Mixture of substances listed below with nonhazardous additions.**- Dangerous components:**

13477-34-4	calcium nitrate tetrahydrate	 Eye Dam. 1, H318;  Acute Tox. 4, H302	50-100%
------------	------------------------------	--	---------

**4 First aid measures****- Description of first aid measures****- General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**- After inhalation:**

Supply fresh air.

Call a doctor immediately.

Supply fresh air; consult doctor in case of complaints.

Take affected persons into fresh air and keep quiet.

**- After skin contact:** If skin irritation continues, consult a doctor.**- After eye contact:**

Seek immediate medical advice.

Rinse opened eye for several minutes under running water. Then consult a doctor.

**- After swallowing:**

Call for a doctor immediately.

Rinse out mouth and then drink plenty of water.

**- Information for doctor:****- Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**- Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Firefighting measures****- Extinguishing media****- Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.**- Special hazards arising from the substance or mixture**

In case of fire, the following products can be released:

Nitrogen oxides (NO<sub>x</sub>)

(Contd. on page 3)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.07.2019

Version number 1.00

Revision: 10.07.2019

Trade name: **Nitcal**

(Contd. of page 2)

- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective clothing.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections** See Section 8 for information on personal protection equipment.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** Protect from heat.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from reducing agents.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes.
- **Respiratory protection:**  
Filter B  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 4)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.07.2019

Version number 1.00

Revision: 10.07.2019

**Trade name: Nitcal**

(Contd. of page 3)

**- Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**- Material of gloves**

Nitrile rubber, NBR

Natural rubber, NR

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**- Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**- Eye protection:**

Tightly sealed goggles

## 9 Physical and chemical properties

**- Information on basic physical and chemical properties****- General Information****- Appearance:****Form:** Fluid**Colour:** Colourless**- Odour:** Odourless**- Odour threshold:** Not determined.**- pH-value (100 g/l) at 20 °C:** 6.0**- Change in condition****Melting point/freezing point:** -20 - -15 °C**Initial boiling point and boiling range:** > 100 °C**- Flash point:** Not applicable.**- Flammability (solid, gas):** Not applicable.**- Decomposition temperature:** Not determined.**- Explosive properties:** Product does not present an explosion hazard.**- Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**- Vapour pressure:** Not determined.**- Density at 20 °C:** 1.49 g/cm<sup>3</sup>**- Vapour density** Not determined.**- Evaporation rate** Not determined.**- Solubility in / Miscibility with water:**

Fully miscible.

**- Partition coefficient: n-octanol/water:** Not determined.

(Contd. on page 5)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.07.2019

Version number 1.00

Revision: 10.07.2019

Trade name: **Nitcal**

(Contd. of page 4)

- **Viscosity:**
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid contamination by any source including metals, dust and organic materials.
- **Incompatible materials:**
  - alkalis
  - combustible materials
  - reducing materials
  - organic materials
  - acids
- **Hazardous decomposition products:**  
Under normal conditions of storage and use, hazardous decomposition should not be produced.  
Possible in traces.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

### - LD/LC50 values relevant for classification:

Inhalative	LC50/4 h	1378 mg/l (Fis) (OECD 203)
------------	----------	----------------------------

- **Primary irritant effect:**
- **Serious eye damage/irritation** Strong irritant with the danger of severe eye injury.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Irritant
- **Acute effects (acute toxicity, irritation and corrosivity)**  
Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.  
  
Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.  
  
Skin contact: No significant effects or critical hazards.  
  
Eye contact: Causes serious eye damage.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Carcinogenicity: No known significant effects or critical hazards.  
  
Fertility effects: No known significant effects or critical hazards.

— AE —

(Contd. on page 6)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.07.2019

Version number 1.00

Revision: 10.07.2019

Trade name: Nitcal

(Contd. of page 5)

## 12 Ecological information

### - Toxicity

#### - Aquatic toxicity:

not harmful to fish (LC50 (96 h) &gt; 1000 mg/l); method: OECD 203

EC50 &gt; 1700 mg/kg (Alg) (Salt water)

490 mg/kg (daphnia) (Fresh water)

- **Persistence and degradability** Readily biodegradable in plants and soils.

- **Behaviour in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### - Waste treatment methods

#### - Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### - Uncleaned packaging:

- **Recommendation:** Packaging may be reused or recycled after cleaning.

- **Recommended cleansing agents:** Water, if necessary together with cleaning agents.

## 14 Transport information

### - UN-Number

- **ADR, ADN, IMDG, IATA** Void

### - UN proper shipping name

- **ADR, ADN, IMDG, IATA** Void

### - Transport hazard class(es)

- **ADR, ADN, IMDG, IATA**

- **Class** Void

### - Packing group

- **ADR, IMDG, IATA** Void

### - Environmental hazards:

- **Marine pollutant:** No

- **Special precautions for user** Not applicable.

- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

- **Transport/Additional information:** Not dangerous according to the above specifications.

- **UN "Model Regulation":** Void

AE

(Contd. on page 7)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.07.2019

Version number 1.00

Revision: 10.07.2019

Trade name: Nitcal

(Contd. of page 6)

## 15 Regulatory information

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

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

calcium nitrate tetrahydrate

- **Hazard statements**

Harmful if swallowed.

May be harmful if inhaled.

Causes serious eye damage.

- **Precautionary statements**

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear eye protection / face protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Rinse mouth.

IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

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.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

- **Relevant phrases**

H302 Harmful if swallowed.

H318 Causes serious eye damage.

- **Abbreviations and acronyms:**

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 5: Acute toxicity – Category 5

Eye Dam. 1: Serious eye damage/eye irritation – Category 1