

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : QL NANO LITHIUM  
Revision date : 17.05.2017  
Print date : 29.05.2017

Version (Revision) : 2.0.0 (1.0.0)

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

### 1.1 Product identifier

QL NANO LITHIUM

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

#### Relevant identified uses

Preparation for building and construction: Chemical / mechanical hardener, dustproof, nano-technological, non-film, Specific for concrete flooring, based on Lithium Silicates.

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

AZICHEM Srl

Street : Via G. Gentile 16/A

Postal code/city : 46044 Goito (MN)

Telephone : +390376604185/604365

Telefax : +39 0376 604398

Information contact : info@azichem.com

### 1.4 Emergency telephone number

Centro Antiveleni di Milano +39 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (24h)

Centro Antiveleni di Pavia +39 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo +39 800 883300 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni di Firenze +39 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma +39 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma +39 06 49978000 (CAV Policlinico Umberto I - Roma)

Centro Antiveleni di Napoli +39 081 7472870 (CAV Ospedale Cardarelli - Napoli)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.

### 2.2 Label elements

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

##### Hazard pictograms



Corrosion (GHS05)

##### Signal word

Danger

##### Hazard components for labelling

PROPRIETARY INGREDIENT C ( a)

##### Hazard statements

H314 Causes severe skin burns and eye damage.

##### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P310 Immediately call a POISON CENTER/doctor

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

PROPRIETARY INGREDIENT A (\*, a)

Weight fraction :  $\geq 5 - < 10 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

PROPRIETARY INGREDIENT C ( a)

Weight fraction :  $\geq 2 - < 5 \%$   
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318

#### Additional information

Full text of H- and EUH-statements: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Remove victim out of the danger area. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

#### In case of skin contact

Wash immediately with: Water Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician. In case of skin reactions, consult a physician.

#### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Never give anything by mouth to an unconscious person or a person with cramps.

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

Causes severe skin burns and eye damage.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Extinguishing powder alcohol resistant foam Carbon dioxide (CO<sub>2</sub>) Water mist

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

None

### 5.3 Advice for firefighters

Remove persons to safety.

#### Special protective equipment for firefighters

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Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

### SECTION 6: Accidental release measures

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

Clear spills immediately. Wear a self-contained breathing apparatus and chemical protective clothing.

##### For non-emergency personnel

Remove persons to safety.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

##### For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

##### For cleaning up

The contaminated area should be cleaned up immediately with: Water Retain contaminated washing water and dispose it.

#### 6.4 Reference to other sections

Reference to other sections Safe handling: see section 7 Personal protection equipment: see section 8

### SECTION 7: Handling and storage



#### 7.1 Precautions for safe handling

##### Protective measures

##### Specific requirements or handling rules

Do not breathe dust. Do not breathe gas/fumes/vapour/spray. See section 8.

##### Advices on general occupational hygiene

Normal precautions taken when handling chemicals should be observed.

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

Only use containers specifically approved for the substance/product.

##### Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Protect against UV-radiation/sunlight Humidity.

##### Hints on joint storage

Storage class : 12

Storage class (TRGS 510) : 8B

##### Keep away from

Store at least 3 metres apart from: Chemicals/products that react together readily

##### Further information on storage conditions

Keep container tightly closed and in a well-ventilated place.

#### 7.3 Specific end use(s)

None

### SECTION 8: Exposure controls/personal protection

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### 8.1 Control parameters

None

### 8.2 Exposure controls

#### Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

#### Personal protection equipment



When using do not eat, drink, smoke, sniff.

#### Eye/face protection

##### Suitable eye protection

Eye glasses with side protection DIN EN 166

#### Skin protection

##### Hand protection

Tested protective gloves must be worn DIN EN 374

#### Respiratory protection

Quarter-face mask (DIN EN 140) Half-face mask (DIN EN 140) Filtering Half-face mask (DIN EN 149)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Safety relevant basis data

Aspect			liquid
Colour			light green
Odour			none
Freezing point :			0 °C
Vapour density	(( air = 1 )	<	1
Initial boiling point and boiling range :	( 1013 hPa )		No data available
Decomposition temperature :			No data available
Self flammability			not applicable
Flash point :			Not flammable
Ignition temperature :			No data available
Flammable solids :			No data available.
Flammable gases :			No data available.
Flammable aerosols :			No data available.
Flammability (solid, gas)			Data not available
Oxidising liquids :			No data available.
Lower explosion limit :			No data available
Upper explosion limit :			No data available
Explosive properties :			No data available.
Explosive properties			Not applicable
Vapour pressure	( 20 °C )		17 hPa
Density :	( 23 °C )		No data available
Relative density :	( 20 °C )		1,11 (Water = 1)
Water solubility :	( 20 °C )		almost insoluble
pH :		>	11
Log Pow	( 20 °C )		not applicable

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Viscosity :	( 20 °C )	No data available
Viscosity :	( 23 °C )	No data available
Odour threshold		Data not available
Odour threshold :		No data available
Relative vapour density :	( 20 °C )	No data available
Evaporation rate :		No data available
Evaporation rate		Data not available
Maximum VOC content (EC) :		0,1 Wt %
Oxidizing properties		Not oxidising

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is stable.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions. See section 7. No additional measures necessary.

### 10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled properly.

### 10.4 Conditions to avoid

None.

### 10.5 Incompatible materials

Acid Oxidizing agents.

### 10.6 Hazardous decomposition products

None

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50 ( PROPRIETARY INGREDIENT A (*, a) )
Exposure route :	Oral
Species :	Rat
Effective dose :	16540 mg/kg

##### Acute dermal toxicity

It has no significant toxicity properties.

#### Irritant and corrosive effects

##### Primary irritation to the skin

Irritating to skin.

##### Irritation to eyes

Irritating to eyes.

##### Irritation to respiratory tract

Not an irritant.

#### Sensitisation

##### In case of inhalation

not sensitising.

#### Repeated dose toxicity (subacute, subchronic, chronic)

##### Chronic inhalation toxicity

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No data available

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The ingredients in this mixture do not meet the criteria for classification as CMR according to CLP.

## SECTION 12: Ecological information

Do not allow uncontrolled discharge of product into the environment.

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This product is none, or does not contain a substance called a PBT or vPvB

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

Dispose according to legislation.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

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

not applicable

## SECTION 15: Regulatory information

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

#### EU legislation

Regulation (EC) 1907/2006/CE (REACH). Regulation (EC) No 1272/2008 (CLP). Regulation (EU) 2015/830 requirements for the compilation of safety data sheets. Commission Regulation (EC) No 790/2009/CE (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 286/2011 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 618/2012 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 487/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 758/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 944/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 605/2014 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 1297/2015 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008).

#### Other regulations (EU)

**Regulation (CE) 1907/2006: Substance of very high concern included in the SVHC Candidate List**

None

#### National regulations

Italy: Legislative Decree 81/2008 (Consolidated Law on protection of health and safety at work), as amended and Directive 2009/161/UE - chemical risk assessment in accordance with Title IX

#### Water hazard class (WGK)

Class : nwg (Non-hazardous to water) Classification according to VwVwS

### 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Further ingredients · 07. Hints on joint storage - Storage class

### 16.2 Abbreviations and acronyms

#### LEGENDA:

ADR:	Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada)
ASTM:	ASTM International, originariamente nota come American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in Commercio)
EC(0/50/100):	Effective Concentration 0/50/100 (Concentrazione Effettiva Massima per 0/50/100% degli Individui)
LC(0/50/100):	Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50/100% degli Individui)
IC50:	Inhibitor Concentration 50 (Concentrazione Inibente per il 50% degli Individui)
NOEL:	No Observed Effect Level (Dose massima senza effetti)
NOEC:	No Observed Effect Concentration (Concentrazione massima senza effetti)
LOEC:	Lowest Observed Effect Concentration (Concentrazione massima alla quale è possibile evidenziare un effetto)
DNEL:	Derived No Effect Level (Dose derivata di non effetto)
DMEL:	Derived Minimum Effect Level (Dose derivata di minimo effetto)
CLP:	Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio)
CSR:	Rapporto sulla Sicurezza Chimica (Chemical Safety Report)
LD(0/50/100):	Lethal Dose 0/50/100 (Dose Letale per 0/50/100% degli Individui)
IATA:	International Air Transport Association (Associazione Internazionale del Trasporto Aereo)
ICAO:	International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)
Codice IMDG:	International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo)

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PBT:	Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche)
RID:	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose)
STEL:	Short term exposure limit (limite di esposizione a breve termine)
TLV:	Threshold limit value (soglia di valore limite)
TWA:	Time Weighted Average (media ponderata nel tempo)
UE:	Unione Europea
vPvB:	Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili)
N.D.:	Non disponibile.
N.A.:	Non applicabile
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wassergefährdende Stoffe – VwVWS)
PNEC:	Predicted No Effect Concentration
PNOS:	Particulates not Otherwise Specified
BOD:	Biochemical Oxygen Demand
COD:	Chemical Oxygen Demand
BCF:	BioConcentration Factor
TRGS :	Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany
LCLo:	Lethal Concentration Low (La minima concentrazione letale)
ThOD:	Theoretical Oxygen Demand

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

calculated.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

### 16.6 Training advice

None

### 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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