

Safety Data Sheet

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



Trade name : SANAXIL - I
Revision date : 18.05.2017
Print date : 30.05.2017

Version (Revision) : 2.0.0 (1.0.0)

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

1.1 Product identifier

SANAXIL - I

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

Preparation for building and construction: Decorative, resinant, pigmented, breathable, potassium silicate intonacle.

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. 1A ; H314 - Skin corrosion/irritation : Category 1A ; 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 statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

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

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

Safety Data Sheet

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



Trade name : SANAXIL - I
Revision date : 18.05.2017
Print date : 30.05.2017

Version (Revision) : 2.0.0 (1.0.0)

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Potassium silicate RM SiO₂/K₂O :3,45 ; REACH registration No. : 01-2119456888-17 ; EC No. : 215-199-1; CAS No. : 1312-76-1

Weight fraction : $\geq 3,5 - < 4 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

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 (CO₂) 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

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.

Safety Data Sheet

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



Trade name : SANAXIL - I
Revision date : 18.05.2017
Print date : 30.05.2017

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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 : 8A

Storage class (TRGS 510) : 8A

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

8.1 Control parameters

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL Consumer (systemic) (Potassium silicate RM SiO₂/K₂O :3,45 ; CAS No. : 1312-76-1)

Safety Data Sheet

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



Trade name : SANAXIL - I
Revision date : 18.05.2017
Print date : 30.05.2017

Version (Revision) : 2.0.0 (1.0.0)

Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	0,74 mg/kg
Limit value type :	DNEL Consumer (systemic) (Potassium silicate RM SiO ₂ /K ₂ O :3,45 ; CAS No. : 1312-76-1)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	1,38 mg/m ³
Limit value type :	DNEL Consumer (systemic) (Potassium silicate RM SiO ₂ /K ₂ O :3,45 ; CAS No. : 1312-76-1)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	0,74 mg/kg
Limit value type :	DNEL worker (systemic) (Potassium silicate RM SiO ₂ /K ₂ O :3,45 ; CAS No. : 1312-76-1)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	1,49 mg/kg
Limit value type :	DNEL worker (systemic) (Potassium silicate RM SiO ₂ /K ₂ O :3,45 ; CAS No. : 1312-76-1)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	5,61 mg/m ³
PNEC	
Limit value type :	PNEC aquatic, freshwater (Potassium silicate RM SiO ₂ /K ₂ O :3,45 ; CAS No. : 1312-76-1)
Limit value :	7,5 mg/l
Limit value type :	PNEC aquatic, intermittent release (Potassium silicate RM SiO ₂ /K ₂ O :3,45 ; CAS No. : 1312-76-1)
Limit value :	7,5 mg/l
Limit value type :	PNEC aquatic, marine water (Potassium silicate RM SiO ₂ /K ₂ O :3,45 ; CAS No. : 1312-76-1)
Limit value :	1 mg/l
Limit value type :	PNEC sewage treatment plant (STP) (Potassium silicate RM SiO ₂ /K ₂ O :3,45 ; CAS No. : 1312-76-1)
Limit value :	348 mg/l

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

Safety glasses with side shields (EN 166).

Skin protection

Hand protection

Wear rubber gloves approved under standard EN374.

Safety Data Sheet

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



Trade name : SANAXIL - I
Revision date : 18.05.2017
Print date : 30.05.2017

Version (Revision) : 2.0.0 (1.0.0)

Respiratory protection

In case of exceeding the threshold value (if available) of one or more of the substances present in the product, for daily exposure in the workplace or to a fraction established by the service of prevention and protection service, wear a mask with filter type B or universal, the class (1, 2 or 3) must be chosen according to the limit concentration of use (ref. standard EN 141).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Aspect		liquid
Colour		white
Odour		typical
Melting point/melting range :	(1013 hPa)	No data available
Vapour density	(air = 1)	Data not available
Initial boiling point and boiling range :	(1013 hPa)	No data available
Decomposition temperature :		No data available
Self flammability		No data available
Flash point :	>	60 °C
Flammability (solid, gas)		Data not available
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Explosive properties		Product is not explosive
Vapour pressure	(20 °C)	No data available
Density :	(20 °C)	No data available
Density :	(23 °C)	No data available
Water solubility :	(20 °C)	miscibility
pH :		11,5 - 12,5
Log Pow	(20 °C)	not applicable
Viscosity :	(20 °C)	No data available
Viscosity :	(23 °C)	No data available
Odour threshold		Data not available
Evaporation rate		Data not available
Maximum VOC content (EC) :		1999/13/EC
Oxidizing properties		Data not available

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

See section 7. No additional measures necessary.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

Safety Data Sheet

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



Trade name : SANAXIL - I
Revision date : 18.05.2017
Print date : 30.05.2017

Version (Revision) : 2.0.0 (1.0.0)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter : LD50 (Potassium silicate RM SiO₂/K₂O :3,45 ; CAS No. : 1312-76-1)
Exposure route : Oral
Species : Rat (female)
Effective dose : > 5000 mg/kg

Acute dermal toxicity

Parameter : LD50 (Potassium silicate RM SiO₂/K₂O :3,45 ; CAS No. : 1312-76-1)
Exposure route : Dermal
Species : Rat
Effective dose : > 50 mg/kg

Acute inhalation toxicity

Parameter : LC50 (Potassium silicate RM SiO₂/K₂O :3,45 ; CAS No. : 1312-76-1)
Exposure route : Inhalation
Species : Rat
Effective dose : > 2,06 g/m³

Irritant and corrosive effects

Primary irritation to the skin

Causes severe skin burns and eye damage.

Irritation to eyes

Causes severe skin burns and eye damage.

Irritation to respiratory tract

Not an irritant.

Sensitisation

not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

There were no chronic effects or effects at low concentrations.

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

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (Potassium silicate RM SiO₂/K₂O :3,45 ; CAS No. : 1312-76-1)
Species : Leuciscus idus (golden orfe)
Effective dose : > 146 mg/l
Exposure time : 48 mg/l

Acute (short-term) daphnia toxicity

Parameter : EC0 (Potassium silicate RM SiO₂/K₂O :3,45 ; CAS No. : 1312-76-1)
Species : Pseudokirchneriella subcapitata
Effective dose : > 3480 mg/l
Exposure time : 18 h

Acute (short-term) algae toxicity

Parameter : EC50 (Potassium silicate RM SiO₂/K₂O :3,45 ; CAS No. : 1312-76-1)

Safety Data Sheet

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



Trade name : SANAXIL - I
Revision date : 18.05.2017
Print date : 30.05.2017

Version (Revision) : 2.0.0 (1.0.0)

Species : Scenedesmus subspicatus
Effective dose : 207 mg/l
Exposure time : 72 h

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

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

UN 1760

14.2 UN proper shipping name

Land transport (ADR/RID)

CORROSIVE LIQUID, N.O.S.

Sea transport (IMDG)

CORROSIVE LIQUID, N.O.S.

Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, N.O.S.

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C9
Hazard identification number (Kemler No.) : 88
Tunnel restriction code : E
Special provisions : LQ 0 · LQ 0 · E 0
Hazard label(s) : 8

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 0 · E 0
Hazard label(s) : 8

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8
Special provisions : E 0

Safety Data Sheet

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



Trade name : SANAXIL - I
Revision date : 18.05.2017
Print date : 30.05.2017

Version (Revision) : 2.0.0 (1.0.0)

Hazard label(s) : 8

14.4 Packing group

I

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

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

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] · 07. Hints on joint storage - Storage class · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR)

16.2 Abbreviations and acronyms

LEGENDA:

ADR: Accord européen relative au transport international des marchandises dangereuses par route (accordo

Safety Data Sheet

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



Trade name : SANAXIL - I
Revision date : 18.05.2017
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Version (Revision) : 2.0.0 (1.0.0)

	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)
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.
H335	May cause respiratory irritation.

16.6 Training advice

None

16.7 Additional information

Safety Data Sheet

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



Trade name : SANAXIL - I
Revision date : 18.05.2017
Print date : 30.05.2017

Version (Revision) : 2.0.0 (1.0.0)

None

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.
