

Printing date 09.12.2024 Version number: RO/ 11 (replaces version 10) Revision: 13.11.2024

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

Product identifier

Trade name:

Tynk gipsowy Aqua 653

Machine-applied, gypsum plaster with high hardness

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

Life cycle stages

C/PW Consumer use / Widespread use by professional workers

Sector of Use

SU19 Building and construction work

Product category

PC9b Fillers, putties, plasters, modelling clay

Process category

PROC11 Non industrial spraying

PROC19 Manual activities involving hand contact

Environmental release category

ERC10a / ERC11a Widespread use of articles with low release

Article category

AC4 Stone, plaster, cement, glass and ceramic articles

Application of the substance / the preparation

Plaster - Product for an industrial, technical and private use for mixing with water and subsequent processing on buildings. For all other uses is advised against/ not recommended.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

KREISEL - Technika Budowlana Sp. z o.o. ul. Szarych Szeregów 23 60-462 Poznań Poland

Tel. +48 61 846 79 00 Fax +48 61 846 79 09 sekretariat@kreisel.pl www.kreisel.pl

Further information obtainable from:

Bartosz Polaczyk - Tel.: +48 510 022 908, +48 61 84 67 966, bartosz.polaczyk@kreisel.pl On working days 8 a.m. - 4 p.m.

Emergency telephone number



National poisons information centre: +44/(0)171 - 635 9191

National Health Service: 111 European emergency call: 112

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SECTION 2: Hazards identification

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

Label elements

GHS label elements Void

Hazard pictograms

Void

Signal word

Void

Hazard statements

Void

Precautionary statements

Observe the general safety regulations when handling chemicals.

Other hazards

The part of respirable, cristaline siliciumdioxide amounts below 1%. The product ist no subject to a declaration obligation. However, the use of breathing protection is advisable.

Dust from the dry mixture can cause respiratory irritation. Frequent inhalation of large amounts of dust increases the risk of developing lung diseases.

Results of PBT and vPvB assessment

PBT:

This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

vPvB:

This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Chemical characterization: Substances

This product is a mixture.

Mixtures

Description:

Mixture of inorganic binders, fillers and nonhazardous additions

Dangerous com	ponents:	
CAS: 14808-60-7 EINECS: 238-87	Silicon dioxide (< 1% RCS) 3-4 Consisting of: 14808-60-7 Quartz (SiO ₂); 14464-46-1 Cristobalite;	10 - 25%
REACH: 1	15468-32-3 Tridymite	
CAS: 1317-65-3 EINECS: 215-27 REACH: ¹	Limestone (Calcium carbonate) 9-6 Consisting of: 471-34-1 Calcium carbonate (> 90%); 16389-88-1 Calcium/Magesium carbonate (0 - 10%); 14808-60-7 Quartz (SiO ₂) (0 - 10%); 37244-96-5 Feldspar (0 - 5%); 12001-26-2 Mica - Potassium aluminum silicate (Muscovite) (0 - 5%)	
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Additional information:

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

Description of first aid measures



First aid

General information:

For first responder no special personal protective equipment is required. First responder should avoid contact with the product.

After inhalation:

Remove dust source and provide fresh air or bring the person in fresh air. If discomfort, cough or persistent irritation, seek medical attention.

After skin contact:

Rinse with warm water. Generally the product does not irritate the skin.

After eye contact:

Do not rub eyes because additional damage to eyes can be caused by mechanical stress. If necessary, remove contact lenses and flush the eye immediately while holding eyelids open to water for at least 20 minutes. If possible, isotonic eyewash solution (e. g. 0,9% NaCl). Always consult an occupational physician or ophthalmologist.

After swallowing:

Do not induce vomiting. If conscious rinse mouth with water and drink plenty of water. Consult a physician or poison control center.

Most important symptoms and effects, both acute and delayed

Symptoms and effects are described in section 2 and 11.

Indication of any immediate medical attention and special treatment needed

If a physician is to be consulted, as per possibillity he should be presented this safety data sheet.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents:

The mixture is flammable neither in the delivery condition not in mixed conditions. Extinguisher and fire fighting are therefore adjusted to the surrounding fire.

Special hazards arising from the substance or mixture

This product is neither explosive nor flammable, and non-oxidizing with other materials. Inorganic dust can appear in case of fire. Avoid formation of dust.

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¹ Not subject to registration in accordance with EC 1907/2006 Annex V (point 7) or Article 2.



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Advice for firefighters

No special measures required. Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid formation of dust. Avoid inhalation, eye and skin contact. If appropriate, reference must be made to exposure controls and personal protection (see section 8).

Environmental precautions

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

Methods and material for containment and cleaning up

Collect spilled dry material dry and use if possible. Avoid formation of dust. For cleaning use at least industrial vacuum dust class M (DIN EN 60335-2-69). Do not dry sweep. Never use compressed air for cleaning. If, during a dry cleaning dust is formed, then it is necessary to use personal protective equipment. Avoid inhalation of emerging dust and contact with skin. Dispose of the material collected according to regulations.

Let the mixed mortar solidify and dispose of (see section 13.1).

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Avoid contact with the eyes and skin. Wear protective clothing. Washing facilities / Water for cleaning eyes and skin should be available. Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product. Do not eat, drink, smoke or sniff while working.

Information about fire - and explosion protection:

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Keep out of reach of children. Store in cool, dry place in tightly closed receptacles.

Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and feed.

Further information about storage conditions:

Protect from humidity and water.

Miniumum storage life:

Minimum storage life (story dry, up to 20°C): See indication on package.

Storage class: 13

Specific end use(s)

No further relevant information available.

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SECTION 8: Exposure controls/personal protection

Control parameters

Ingredients with	limit values that require monitoring at the workplace:
14808-60-7 Silic	on dioxide (< 1% RCS)
BOELV (EU)	Long-term value: 0.1* mg/m³ *respirable fraction
1317-65-3 Limes	stone (Calcium carbonate)
WEL (Great Brita	in) Long-term value: 10* 4** mg/m³ *inhalable dust; **respirable

DNELs			
7778-18-9	7778-18-9 Calcium sulphate, various hydrates CaSO₄ x (0 - 2) H₂O		
Oral	Long term exposure	1.25 mg/kg bw/d (Consumer)	
	Short term exposure	11.4 mg/kg bw/d (Consumer)	
Inhalative	Systemic - Long term exposure	5.29 mg/m³ (Consumer)	
		21.17 mg/m³ (Employee)	
	Systemic - Short term exposure	3,811 mg/m³ (Consumer)	
		5,082 mg/m³ (Employee)	

PNECs

7778-18-9 Calcium sulphate, various hydrates CaSO₄ x (0 - 2) H₂O

Freshwater	mg/l (Not toxic)
Soil	mg/kg (Not toxic)
Sediments (Freshwater)	mg/kg (Not toxic)
	10 mg/l

Ingredients with biological limit values:

Void

Additional Occu	Additional Occupational Exposure Limit Values for possible hazards during processing:	
Components wi	th general dust limit	
MAK (Great Brita	in) Long-term value: 4 a 10 e mg/m³	
14808-60-7 Quai	rtz (SiO ₂)	
BOELV (EU)	Long-term value: 0.1* mg/m³ *respirable fraction	
14808-60-7 Silic	on dioxide (< 1% RCS)	
BOELV (EU)	Long-term value: 0.1* mg/m³ *respirable fraction	

a - alveoles passing particles e - respirable particles (DIN EN 481)

Additional information:

The lists valid during the making were used as basis.

Information about design of technical facilities

For reduction of the dust formation, closed systems (e. g. silo with conveyor) local exhaust or other engineering controls such as plastering machines or continuous mixers with special additional equipment for dust detection should be used.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Use skin protection cream for skin protection. Avoid close or long term contact with the skin. Avoid contact with the eyes. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Do not eat, drink, smoke or sniff while working.

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Respiratory protection:



Particle filtering half mask (FFP2 according to EN 149)

Compliance with the Occupational Exposure Limits is to be ensured through effective dust-technical measures, such as local exhaust ventilation. If there is a risk of exceeding the exposure limits, e. g. the open fiddling with the powdered dry product or during processing by splash, an appropriate respirator must be used.

Hand protection:



Hand protection: Chemical resistant protective gloves according EN ISO 374

Wear waterproof, abrasion and alkali-resistant protective gloves with CE marking. leather gloves are not suitable on the basis of their water permeability and can release chromate-containing compounds.

Material of gloves:

When preparing and processing the ready-mix, no chemical-resistant gloves (Cat. III) are necessary. Studies have shown that nitrilge-soaked cotton gloves (layer thickness about 0.15 mm) offer over a period of 480 min adequate protection. Change damp gloves. Keep gloves ready for change.

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.

For the permanent contact gloves made of the following materials are suitable:

Polychloroprene (material thickness ≥ 0.5 mm; breakthrough time ≥ 480 min.) Nitrile rubber (material thickness ≥ 0.35 mm; breakthrough time ≥ 480 min.) Butyl rubber (material thickness ≥ 0.5 mm; breakthrough time ≥ 480 min.)

Fluororubber (material thickness ≥ 0.4 mm; breakthrough time ≥ 480 min.)

Neoprene (material thickness ≥ 0.5 mm; breakthrough time ≥ 480 min.)

Not suitable are gloves made of the following materials:

Non-liquid-tight gloves made of fabric, leather or similar materials.

Eye/face protection:



In case of dust development or splash risk use tightly fitting safety goggles according to EN 166.

Body protection:



Wear closed long-sleeved clothing and tight shoes. If contact with fresh mortar is unavoidable, the protective clothing should also be waterproof. Make sure that no fresh mortar from above gets into the shoes or boots.

Risk management measures:

An operator training/guidance in the correct use of personal protective equipment is necessary to ensure the required level of effectiveness.

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Environmental exposure controls

Avoid release in the environment. Use the surplus or dispose it of properly.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

General Information

Physical state Solid

Appearance:

Form: Powder
Colour: Whitish
Odour: Odourless

Odour threshold: Not safety relevant

pH at 20 °C (68 °F) 9 - 11

Saturated aqueous solution

Change in condition

Melting point/freezing point: > 1,300 °C (> 34.300 °F)

Boiling point or initial boiling point and

boiling range Undetermined

Flammability Product is not flammable.

Flash point:
Auto-ignition temperature:
Not applicable
Not applicable

Decomposition temperature: >100°C to CaSO₄ and H₂O >800°C to CaO and SO₃

Oxidising properties: None

Explosive properties: Product does not present an explosion hazard.

Void

Void

Ignition temperature: Product is not selfigniting.

Density and/or relative density

Density: Not determined **Bulk density:** 790 - 1,000 kg/m³

Particle size Solubility

Water: Slightly soluble

Partition coefficient n-octanol/water (log

value) Not determined Solids content: 100.0 %

Other information

Oxidising liquids

Oxidising solids

Information with regard to physical hazard

classes

Explosives Void Flammable gases Void **Aerosols** Void **Oxidising gases** Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void

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Organic peroxidesVoidCorrosive to metalsVoidDesensitised explosivesVoid

SECTION 10: Stability and reactivity

Reactivity

A proposed reaction takes place in contact with water, during which the product hardens and forms a solid mass, which does not react with the environment.

Chemical stability:

The product is stable as long as it is stored properly and dry.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid

Prevent entry of water and moisture during storage (the mixture reacts with moisture and hardens).

Incompatible materials

No further relevant information available.

Hazardous decomposition products

No dangerous decomposition products known.

Miniumum storage life:

Additional information:

No further relevant information available.

SECTION 11: Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008

The product was not investigated. The statement is derivated from the properties of the single components.

Acute toxicity:

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

LD/LC50 v	LD/LC50 values relevant for classification:	
7778-18-9	Calcium	sulphate, various hydrates CaSO₄ x (0 - 2) H₂O
Oral	LD ₅₀	> 2,000 mg/kg (Rat)
Inhalative	LC ₅₀ (4h)	> 5 mg/l (Rat)
14808-60-7 Silicon dioxide (< 1% RCS)		
Oral	LD ₅₀	> 5,000 mg/kg (Rat)
Dermal	LD_{50}	> 5,000 mg/kg (Rat)
1317-65-3 Limestone (Calcium carbonate)		
Oral	LD ₅₀	6,450 mg/kg (Rat) (RTECS Data)

Other information	on (about experim	ental toxicology):
14808-60-7 Silic	on dioxide (< 1% F	RCS)
Irritation of skin	OECD 404 (skin)	(Rabbit) not irritant

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Irritation of eyes	OECD 405 (eye)	(Rabbit)
		not irritant
Sensitisation	OECD 429 (LLNA)	(Mouse)
	, ,	not sensitizing

Primary irritant effect:

On the skin:

Slightly irritating, does not require labeling.

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

On the eye:

Slightly irritating, does not require labeling.

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

Sensitization:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

Specific target organ toxicity - single exposure (STOT SE):

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

Specific target organ toxicity - repeated exposure (STOT RE):

Frequent inhalation of large amounts of dust increases the risk of developing lung diseases.

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

Aspiration hazard:

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

Practical experience

No further relevant information available.

General comments

No further relevant information available.

Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

Toxicity

The product was not investigated. The statement is derivated from the properties of the single components.

Aquatic toxicity:	
7778-18-9 Calcium sulphate, various hydrates CaSO ₄ x (0 - 2) H ₂ O	
LC ₅₀ (96h)	> 1,970 mg/l (Fat head minnow - pimephales promelas)
LC ₅₀ (48h)	> 1,910 mg/l (Water flea - ceriodaphnia dubia)
LC ₅₀ (96h Marine water)	> 79 mg/l (Japanese rice fish - oryzia latipes) (OECD 203) LIMIT-Test
LC₅₀ (96h Freshwater)	> 79 mg/l (Algae) (OECD 201) LIMIT-Test

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EC ₅₀	> 790 mg/kg (Activated sludge organisms) (OECD 209)
EC ₅₀ (48h)	> 79 mg/l (Water flea - daphnia) (OECD 202) LIMIT-Test
EC₅₀ (96h)	3,200 mg/l (Algae - navicula seminulum)
NOEC (21d)	360 mg/l (Water flea - daphnia magma)
1317-65-3 Limestone (C	Calcium carbonate)
LC ₅₀ (96h)	> 100 mg/l (Rainbow trout - oncorhynchus mykis) (OECD 203)
LC₅₀ (48h)	> 100 mg/l (Water flea - daphnia magma) (OECD 202)
EC ₅₀	> 14 mg/l (Algae - desmodesmus subspicatus) (OECD 201)
	> 1,000 mg/l (Activated sewage sludge) (OECD 209)

Persistence and degradability

Anorganic product, is not removable from water by biological cleaning process

Bioaccumulative potential

Does not accumulate in organisms

Mobility in soil

Slightly soluble

Results of PBT and vPvB assessment

PBT

This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

vPvB:

This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties

This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

Other adverse effects

No further relevant information available.

Literature

No further relevant information available.

Ecotoxical effects:

No further relevant information available.

Behaviour in sewage processing plants:

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.

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SECTION 13: Disposal considerations

Waste treatment methods

Recommendation:





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

Gather dry, store in labeled containers and re-use if possible, taking into account the maximum storage time or mix residual amounts while avoiding any skin contact and exposure to dust with water. Moisture products or product slurry to harden and dispose of according to local regulatory regulations.

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

Europea	n waste catalogue
16 03 04	Inorganic wastes other than those mentioned in 16 03 03
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
15 01 01	Paper and cardboard packaging

16 03 04 for residual amounts of unprocessed product

17 08 02 for the water mixed and setted product

15 01 01 for the completely emptied packaging

Uncleaned packaging

Recommendation:

Disposal must be made according to official regulations.

Recycle only completely emptied packaging.

UN number or ID number ADR, IMDG, IATA	Void	
UN proper shipping name		
ADR, IMDG, IATA	Void	
Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
Packing group ADR, IMDG, IATA	Void	
Environmental hazards	Not applicable.	
Special precautions for user	Not applicable	
Maritime transport in bulk according instruments	y to IMO Not applicable	
UN "Model Regulation":	Void	

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SECTION 15: Regulatory information

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

Observe the general safety regulations when handling chemicals.

Poisons Act

Regulated explosives precursors

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

GHS label elements Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Directive (EU) 2012/18

Named dangerous substances - ANNEX I:

None of the ingredients is listed.

Biozide ingredients (EU) 528/2012:

Data based on recipe and information on the raw materials from the supply chain.

None of the ingredients is listed.

Classification according (EU) 2004/42:

Not applicable

Other regulations, limitations and prohibitive regulations:

- ·Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- ·Commission Regulation (EU) No 878/2020 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH)
- ·Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- ·Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste
- ·Regulation (EC) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

Chemical safety assessment

A Chemical Safety Assessment has not been carried out.



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SECTION 16: Other information

Reasons for changes:

* Data compared to the previous version altered.

Advice for instructions:

Additional trainings, which go beyond the prescribed training in activities involving hazardous substances are not required.

Literature and the data sources:

Department issuing MSDS:

Product safety department (+43/(0)5522-41646-0 / klaus.ritter@fixit-gruppe.com)

Contact:

Dr. Klaus Ritter

Abbreviations and acronyms:

MAK: Maximale Arbeitsplatz-Konzentration (maximum concentration of a chemical substance in the workplace, Austria/Germany)

PBT: persistent, bioaccumulative and toxic properties

vPvB: very persistent, bioaccumulatice properties

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Further information:

The information in this safety data sheet describe the safety requirements of our product and is based on our current state of our knowledge. They provide no assurance of product quality. Existing laws, ordinances and regulations, including those that are not mentioned in this data sheet must be observed by the recipient of our products in their own responsibility.

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