

1 Identification

Product identifier

Trade name: GLOXIL matt

Application of the substance / the mixture

As functional fillers for elastomers, plastics, paints and varnishes, adhesives, polishing and protective agents, welding electrodes, as well as in the construction and chemical industries.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

HOFFMANN MINERAL GmbH

Münchener Straße 75

D - 86633 Neuburg (Donau)

Phone: +49 (0) 8431 53-0

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www.hoffmann-mineral.com

info@hoffmann-mineral.com

Importer:

AZELIS AMERICAS CASE LLC.

225 Pictoria Drive Suite 550

Cincinnati, Ohio 45246, USA

Phone: +1 800 5431121

E-mail competent person: info@hoffmann-mineral.com

Information department: see supplier or importer.

Emergency telephone number:

GBK/Infotrac ID 91785:

(USA domestic) 1 800 535 5053

2 Hazard(s) identification

Classification of the substance or mixture

The substance is classified according to the Hazard Communication Standard (HCS 2012).

Flammable Solids 2 H228 Flammable solid.

Combustible Dust May form combustible dust concentrations in air.

Label elements

Hazard pictograms



Signal word Warning

Hazard statements

H228 Flammable solid.

May form combustible dust concentrations in air.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P370+P378 In case of fire: Use for extinction: CO2, powder or foam.

Information pertaining to particular dangers for man and environment: Defatting effect on the skin.

Classification system:

HMIS-ratings (scale 0 - 4)

HEALTH	0
FIRE	2
REACTIVITY	0

Health = 0

Fire = 2

Reactivity = 0

NFPA ratings (scale 0 - 4)



Health = 0

Fire = 2

Reactivity = 0

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3 Composition/information on ingredients

Chemical characterization: Mixtures**Description:** GLOXIL matt is based on Amorphous Silica and coated with various bonding agents.**Ingredient:** Void**Additional information:****Bonding agents:** Unsaturated, even numbered, unbranched fatty acid ester mixtures. The exact chemical composition and concentration of the bonding agents is part of company know-how and, therefore, confidential.**TSCA**

7631-86-9 Silica

67762-38-3 Fatty acids, C16-18 and C18-unsatd., Me esters

4 First-aid measures

Description of first aid measures**General information:** In any cases of doubt or if symptoms are present, seek medical advice.**Inhalation:**

Supply fresh air; consult doctor in case of complaints.

Remove victim from contaminated area. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Call a doctor.

Skin contact:

Wash the areas of skin affected with water and a mild detergent.

If skin irritation continues, consult a doctor.

Eye contact:

Rinse opened eye for several minutes under running water.

If symptoms persist, consult a doctor.

Ingestion:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting

Never give anything by mouth to an unconscious person.

If symptoms persist consult 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** Symptomatic treatment

5 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:**

Foam

Fire-extinguishing powder

Carbon dioxide

Water spray

For safety reasons unsuitable extinguishing agents: Water with full jet**Special hazards arising from the substance or mixture**

Risk of dust explosion if enriched with fine dust in the presence of air.

Advice for firefighters**Protective equipment:**

Do not enter the hazardous area without a self-contained breathing apparatus.

See Section 8 for information on personal protection equipment.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

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Environmental precautions:

The following information refer to the leakage of large quantities:
 Do not allow product to reach sewage system or any water course.
 Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up:

Avoid formation of dust. Use a tested and approved industrial vacuum cleaner for collecting dust.
 Send for recovery or disposal in suitable receptacles.

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.

7 Handling and storage

Precautions for safe handling

Prevent formation of dust.
 Any deposit of dust which cannot be avoided must be regularly removed.
 Provide suction extractors if dust is formed.
 Carry out filling operations only at sites with extractors available.
 Take measures against electrostatic charge.
Information about protection against explosions and fires:
 Observe the general rules of industrial fire protection.



Keep ignition sources away - Do not smoke.

Dust can combine with air to form an explosive mixture.
 Use only in explosion protected area.
 Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store receptacles tightly closed at a cool and dry place with sufficient ventilation
 Store in original container wherever possible.
 No special requirements.

Information about storage in one common storage facility: Observe local/state/federal regulations.

Further information about storage conditions:

Store in dry 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 systems: No further data; see section 7.

Control parameters**Components 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 Occupational Exposure Limit Values for possible hazards during processing:

Observe general threshold limit for dust.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

All protective equipment used shall be according to 29 CFR.1910 Subpart I Personal Protective Equipment
 Vacuum clean contaminated clothing. Do not blow or brush off contamination.
 Do not eat or drink while working.

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Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Immediately remove all soiled and contaminated clothing.

Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

If the occupational exposure limit is exceeded:

The following breathing protection is recommended:

fine-dust filter mask N95 (NIOSH Approved)

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Protection of hands: No chemical-protective gloves required.**Eye protection:** Safety glasses with side shields**Body protection:** Not required.

9 Physical and chemical properties

Information on basic physical and chemical properties**General Information****Appearance:****Form:** Powder**Color:** White**Odor:** Odorless**pH-value at 20°C (68°F) (100 g/l) at 20 °C (68 °F):** 6.0 - 8.5 (DIN EN ISO 787 / 9)**Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** Not applicable.**Flash point:** Not applicable.**Flammability (solid, gaseous):** Flammable solid.**Auto igniting:** 270 °C (518 °F)**Decomposition temperature:** Not determined.**Ignition temperature:** Product is not selfigniting.**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.**Explosion limits:****Lower:** 60 g/m³**Upper:** Not determined.**Oxidizing properties** Not determined**Vapor pressure:** Not applicable.**Vapor pressure:****Density at 20°C (68 °F) at 20 °C (68 °F):** 1.3 g/cm³ (10.8485 lbs/gal) (DIN EN ISO 787 / 10)**Vapor density** Not applicable**Evaporation rate** Not applicable**Solubility in / Miscibility with****Water:** practically insoluble.**Partition coefficient (n-octanol/water):** Not determined**Viscosity:****Kinematic:** Not applicable**Other information****Additional information**

Kst-value: 227 bar*m*s-1 (St2)

Minimum ignition energy: >1 / <3 mJ

10 Stability and reactivity

Reactivity No further relevant information available.**Chemical stability** No decomposition if used and stored according to specifications.**Possibility of hazardous reactions** Risk of dust explosion.

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Conditions to avoid

Keep ignition sources away - Do not smoke.

See Section 7 for information on safe handling.

Incompatible materials: No further relevant information available.**Hazardous decomposition products:**

No hazardous decomposition products if instructions for storage and handling are followed

11 Toxicological information

Information on toxicological effects**Acute toxicity:****LD/LC50 values that are relevant for classification:**

No toxicity data are available for the product itself.

CAS: 7631-86-9 silicon dioxide

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>6,000 mg/kg (rabbit)
Inhalative	LC0/4h	>140->2,000 mg/l (rat) (OECD 403)

Primary irritant effect:**on the skin:** Based on available data, the classification criteria are not met.**on the eye:** No irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer)**

All components have the value 3.

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Aspiration hazard**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.

12 Ecological information

Toxicity**Aquatic toxicity:**

No further relevant information available.

CAS: 7631-86-9 silicon dioxide

LC50 / 96h	10,000 mg/l (Danio rerio) (OECD 203)
EC50 / 24h	>1,000 mg/l (Daphnia magna) (OECD 202)
EC50 / 72h	>10,000 mg/l (Scenedesmus subspicatus) (OECD 201)

Persistence and degradability No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Other adverse effects** No further relevant information available.
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13 Disposal considerations

Waste treatment methods
Recommendation:

Disposal must be made according to official regulations.

Product has to be landfilled adhering to the regulations.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number

DOT, ADR/RID/ADN, IMDG, IATA

UN3178

UN proper shipping name

DOT

 Flammable solid, inorganic, n.o.s. (Silica, fatty acid esters)
 3178 Flammable solid, inorganic, n.o.s. (Silica, fatty acid esters)

ADR/RID/ADN

IMDG

FLAMMABLE SOLID, INORGANIC, N.O.S. (Silica, fatty acid esters)

IATA

FLAMMABLE SOLID, INORGANIC, N.O.S. (Silica, Fettsäureester)

Transport hazard class(es)

DOT



Class

4.1 Flammable solids, self-reactive substances and solid desensitised explosives

Label

4.1

ADR/RID/ADN



Class

4.1 (F3) Flammable solids, self-reactive substances and solid desensitised explosives

Label

4.1

IMDG, IATA



Class

4.1 Flammable solids, self-reactive substances and solid desensitised explosives

Label

4.1

Packing group

DOT, ADR/RID/ADN, IMDG, IATA

III

Environmental hazards:

Marine pollutant:

No

Special precautions for user

Warning: Flammable solids, self-reactive substances and solid desensitised explosives

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Hazard identification number (Kemler code): 40
Stowage Category B

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:**DOT**

Quantity limitations On passenger aircraft/rail: 25
 On cargo aircraft only: 100

ADR/RID/ADN

Excepted quantities (EQ) Code: E1
 Maximum net quantity per inner packaging: 30g
 Maximum net quantity per outer packaging: 1000g

IMDG

Limited quantities (LQ) 5 kg
Excepted quantities (EQ) Code: E1
 Maximum net quantity per inner packaging: 30g
 Maximum net quantity per outer packaging: 1000g

IATA

Remarks: Packaging Instructions:
 For Limited Quantities: Y 443 10 kg max. net/Pkg
 Passenger and cargo aircraft: 446 25 kg max. net/Pkg
 Cargo aircraft only: 449 100 kg max. net/Pkg

UN "Model Regulation": UN 3178 FLAMMABLE SOLID, INORGANIC, N.O.S. (SILICA, FATTY ACID ESTERS), 4.1, III

15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

CAS: 7631-86-9 Silica

CAS: 67762-38-3 Fatty acids, C16-18 and C18-unstätt., Me esters

Proposition 65**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories**EPA (Environmental Protection Agency)**

void

NIOSH-Ca (National Institute for Occupational Safety and Health)

void

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National regulations:**Further information:**

NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling .3

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact:

Date of preparation / last revision 03/19/2025 / 4.00

Abbreviations and acronyms:

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = letal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

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

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Solids 2: Flammable solids – Category 2

Sources

"Regulation (EC) Nr. 1907/2006 (REACH), 1272/2008 (CLP), 648/2004 (Detergents) in the respective valid version. National occupation exposure limits for each country in the respective valid version. Transportation regulations according to ADR, RID, IMDG, IATA in the respective valid version."

*** Data compared to the previous version altered.**

Changes have been made to sections marked with a *, as compared to the previous version.

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