

Safety data sheet
according to UK REACH**HOFFMANN**
MINERAL®

Printing date 24.03.2025

Version: 4.01 (replaces version 4.00)

Revision: 19.03.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:****GLOXIL matt****Nanoform:**

This product contains nanoforms (according to UK REACH regulation (EC) 1907/2006).

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

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

HOFFMANN MINERAL GmbH

Münchener Straße 75

D - 86633 Neuburg/Donau

Tel.: +49 (8431) 53-0

www.hoffmann-mineral.com

Further information obtainable from: info@hoffmann-mineral.com

1.4 Emergency telephone number:**+49 (0) 84 31 53-0**

(Not available outside office hours!)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Flam. Sol. 2 H228 Flammable solid.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms

GHS02

Signal word Warning**Hazard statements**

H228 Flammable solid.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and 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 concerning particular hazards for human and environment:

Occupational exposure to cryp. CS A-dust should be monitored and controlled. The product has absorbing action and repeated exposure may cause skin dryness.

2.3 Other hazards May form explosible dust-air mixture if dispersed.**Results of PBT and vPvB assessment****PBT:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

vPvB:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB.

Determination of endocrine-disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: GLOXIL matt is based on Amorphous Silica and coated with various bonding agents.

Dangerous components:

CAS: 7631-86-9 EINECS: 231-545-4	Amorphous Silica Substance with a Community workplace exposure limit. Nanoform: set including amorphous nanoforms non-surface-treated nanoforms Structure: amorphous forms Crystallinity: amorphous nanoform.	>50%
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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.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: In any cases of doubt or if symptoms are present, seek medical advice.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

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

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Foam

Fire-extinguishing powder

Carbon dioxide

Water spray

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Flammable (Burning number [BZ]: 5) (VDI 2263)

Dust can combine with air to form an explosive mixture.

5.3 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.

SECTION 6: Accidental release measures

6.1 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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For non-emergency personnel

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from ignition sources.

For emergency responders Wear protective equipment. Keep unprotected persons away.

6.2 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.

6.3 Methods and material for containment and cleaning up:

Avoid dry sweeping and use water spraying or vacuum cleaning (minimum dust class L) for removal.

Keep in closed containers, ready for disposal.

6.4 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

7.1 Precautions for safe handling

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

Provide suction extractors if dust is formed.

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

Information about fire - and explosion 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.

7.2 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: Observe local/state/federal regulations.

Further information about storage conditions:

Store in dry conditions.

Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:****CAS: 7631-86-9 Amorphous Silica**

W EL (Great Britain)	Long-term value: 2.4 mg/m ³ respirable aerosol
WEL (Great Britain)	Long-term value: 6 mg/m ³ inhalable aerosol
OEL (Ireland)	Long-term value: 6 (1) mg/m ³

Dust, respirable**General Exposure limit for dust**

LV - IRELAND (Ireland)	Long-term value: 4 mg/m ³
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Dust, inhalable**General Exposure limit for dust**LV - IRELAND (Ireland) Long-term value: 10 mg/m³**Regulatory information**

WEL (Great Britain): EH40/2020

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

DNELs**CAS: 7631-86-9 Amorphous Silica**Inhalative DNEL 4 mg/m³ (worker) (acute-local)DNEL 4 mg/m³ (worker) (long-local)**Regulatory information****Additional Occupational Exposure Limit Values for possible hazards during processing:**

Observe general threshold limit for dust.

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****Appropriate engineering controls** No further data; see section 7.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Immediately remove all soiled and contaminated clothing

Respiratory protection:

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 (FFP 2)

Hand protection No chemical-protective gloves required.**Eye/face protection** Safety glasses with side shields**Body protection:** Not required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Physical state**

Solid

Colour:

White

Odour:

Odourless

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range

Not applicable.

Flammability

Flammable solid.

Lower and upper explosion limit**Lower:**60 g/m³**Upper:**

Not determined.

Flash point:

Not applicable.

Auto-ignition temperature:

270 °C

Decomposition temperature:

Not determined.

pH (100 g/l) at 20 °C

6.0 - 8.5 (DIN EN ISO 787 / 9)

Viscosity:**Kinematic viscosity**

Not applicable

Solubility**water:**

practically insoluble.

Partition coefficient n-octanol/water (log value)

Not determined

Vapour pressure:

Not applicable.

Density and/or relative density**Density at 20 °C:**1.3 g/cm³ (DIN EN ISO 787 / 10)

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Vapour density
Particle characteristics

Not applicable
d(50): 7-11 µm (ISO 13320)
Nanoform:
Amorphous nanoform, set including amorphous nanoforms, amorphous forms, surface-treated nanoforms.

9.2 Other information**Appearance:****Form:**

Powder

Important information on protection of health and environment, and on safety.**Ignition temperature:**

Product is not selfigniting.

Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Change in condition**Softening point/range****Oxidising properties**

Not determined

Evaporation rate

Not applicable

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

Flammable solid.

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

Oxidising liquids

Void

Oxidising solids

Void

Organic peroxides

Void

Corrosive to metals

Void

Desensitised explosives

Void

Additional information

raised/whirled dust:
dust explosion class: 2
KSt (bar x m x s⁻¹) = 227
Minimum ignition energy: >1 / <3 mJ

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.**10.2 Chemical stability** No decomposition if used and stored according to specifications.**10.3 Possibility of hazardous reactions** Risk of dust explosion.**10.4 Conditions to avoid**

Keep ignition sources away - Do not smoke.

See Section 7 for information on safe handling.

10.5 Incompatible materials: No further relevant information available.**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute toxicity** Based on available data, the classification criteria are not met.

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LD/LC50 values relevant for classification:**CAS: 7631-86-9 Amorphous Silica**

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)

Skin corrosion/irritation Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation** 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.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**Additional toxicological information:****Repeated dose toxicity**

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

CAS: 7631-86-9 Amorphous Silica

Oral	NOAEL	9,000 mg/kg (rat) (90d / OECD 408)
Inhalative	NOAEC	1 mg/m ³ (rat) (90d / OECD 413)

Values relevant for classification:**CAS: 7631-86-9 Amorphous Silica**

Oral	NOAEL	1,350 mg/kg/day (rat) (OECD 414)
	AMES test	>5 mg/plate (in-vitro) (OECD 471)

11.2 Information on other hazards**Endocrine disrupting properties**

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with health effects.

SECTION 12: Ecological information

12.1 Toxicity There are no ecotoxicological data available on this mixture.**Aquatic toxicity:**

No further relevant information available.

CAS: 7631-86-9 Amorphous Silica

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)

12.2 Persistence and degradability No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

vPvB:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB

12.6 Endocrine disrupting properties

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.

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12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Disposal must be made according to official regulations.

Waste disposal key:

For this product no waste code are defined according to the European Waste Catalogue, as the intended use by the user enables an allocation.

The waste code must be defined in agreement with the regional waste disposers.

European waste catalogue

HP 3	Flammable
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Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number ADR/RID/ADN, IMDG, IATA

UN3178

14.2 UN proper shipping name ADR/RID/ADN

3178 FLAMMABLE SOLID, INORGANIC, N.O.S. (Silica, Fettsäureester)

IMDG

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

IATA

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

14.3 Transport hazard class(es)

ADR/RID/ADN



Class

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

Label

IMDG, IATA



Class

4.1 Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
4.1

Label

14.4 Packing group

ADR/RID/ADN, IMDG, IATA

III

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

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

Hazard identification number (Kemler code):

40

Stowage Category

B

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Transport/Additional information:**ADR/RID/ADN****Limited quantities (LQ)**

5 kg

Transport category

3

Tunnel restriction code

E

UN "Model Regulation":

UN 3178 FLAMMABLE SOLID, INORGANIC, N.O.S. (SILICA, FETTSÄUREESTER), 4.1, III

SECTION 15: Regulatory information

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

Nothing additionally known beyond the information which are given in the sections 2., 8., 11., 12.

European Directives:**Directive 2010/75/EU (VOC)** not subject to**Catégorie SEVESO (DIRECTIVE 2012/18/EU)** not subject to**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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

SECTION 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.

Classification according to Regulation (EC) No 1272/2008

Flammable solids | On basis of test data

Date of previous version: 30.06.2023**Version number of previous version:** 4.00**Abbreviations and acronyms:**

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = lethal 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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

Flam. Sol. 2: Flammable solids – Category 2

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