

Trade name: ArmaGel XGH**Current version :** 1.1.0, issued: 04.08.2025**Replaced version:** 1.0.0, issued: 07.11.2024**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****ArmaGel XGH****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Thermal insulation for pipe-work, vessels and related installation

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**Armacell GmbH
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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms****Signal word**

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Hazard statement(s)
Hazard statements (EU)

EUH210 Safety data sheet available on request.

Precautionary statement(s)
Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

The value from Directive 2004/37/EC (see entry no.1 in section 8.1) is not applicable to this product, as it is amorphous silicon dioxide.

2.3 Other hazards

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Does not contain any substances greater than 0.1% listed as carcinogenic by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference for Governmental Industrial Hygienists) or EU (European Union). See also Section 11. This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

SECTION 3: Composition/information on ingredients
3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures
Hazardous ingredients

No	Substance name	Additional information		
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	silicon dioxide, chemically prepared			
	7631-86-9 231-545-4 - -	-	30.00 - < 50.00	wt%
2	diiron trioxide			
	1309-37-1 215-168-2 - -	-	1.00 - 5.00	wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

Additional ingredients

No	Substance name	Additional information		
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	Glass, oxide, chemicals			
	65997-17-3 266-046-0 - -	-	50.00 - 70.00	wt%
2	Graphite, natural			
	928-876-8 -	-	1.00 - 5.00	wt%

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Glass, oxide, chemicals (CAS 65997-17-3) from continuous filament, non-respirable; amorphous silica

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes and launder thoroughly before reusing.

After inhalation

Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

After skin contact

When in contact with the skin, clean with soap and water. Get medical attention if pain still persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Extinguishing measures to suit surroundings.

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In case of ambient fire possible release of: Oxides of silica; Iron oxide; Carbon oxides (COx)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. avoid dust development

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Collect mechanically. Avoid raising dust. When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Avoid the formation and deposition of dust.

General protective and hygiene measures

Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin. Do not inhale dust.

Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention. Keep away from sources of ignition. Take precautionary measures against static charges. Avoid formation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Store in a dry place.

Requirements for storage rooms and vessels

Keep only in the original container.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	silicon dioxide, chemically prepared	7631-86-9	231-545-4
List of approved workplace exposure limits (WELs) / EH40			
Silica, amorphous inhalable dust			
	WEL long-term (8-hr TWA reference period)	6	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Silica, amorphous respirable dust			
	WEL long-term (8-hr TWA reference period)	2.4	mg/m ³
2	diiron trioxide	1309-37-1	215-168-2
List of approved workplace exposure limits (WELs) / EH40			
Iron oxide			
fume			
Fe			
	WEL short-term (15 min reference period)	10	mg/m ³
	WEL long-term (8-hr TWA reference period)	5	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Rouge			
total inhalable dust			
	WEL long-term (8-hr TWA reference period)	10	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Rouge			
respirable dust			
	WEL long-term (8-hr TWA reference period)	4	mg/m ³
3	Dust		
List of approved workplace exposure limits (WELs) / EH40			
Dust respirable			
	WEL long-term (8-hr TWA reference period)	4	mg/m ³
	Comments	see Definition 44 "Dust"	

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List of approved workplace exposure limits (WELs) / EH40	
Dust inhalable	
WEL long-term (8-hr TWA reference period)	10 mg/m ³
Comments	see Definition 44 "Dust"

Other information

The value from Directive 2004/37/EC (see entry no.1 in section 8.1) is not applicable to this product, as it is amorphous silicon dioxide.

8.2 Exposure controls

Appropriate engineering controls

Appropriate engineering controls
Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment

Respiratory protection

Respiratory protection
If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified. Dust mask

Eye / face protection

Eye / face protection: Safety glasses with side protection shield (EN 166)

Hand protection

Hand protection
Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product.

Other

Other

Environmental exposure controls

Environmental ex-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
solid	
Form	
Solid	
Colour	
grey	
Odour	
No data available	
pH value	
No data available	
Boiling point / boiling range	
No data available	
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	
Flash point	
Not applicable	
Source	supplier
Ignition temperature	
No data available	

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Flammability				
not flammable				
Lower explosion limit				
No data available				
Upper explosion limit				
No data available				
Vapour pressure				
Not applicable				
Source	supplier			
Relative vapour density				
Not applicable				
Source	supplier			
Evaporation rate				
Not applicable				
Source	supplier			
Relative density				
No data available				
Density				
Value	160	-	240	kg/m ³
Source	supplier			
Solubility				
No data available				
Partition coefficient n-octanol/water (log value)				
No data available				
Kinematic viscosity				
No data available				
Particle characteristics				
No data available				

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

None, when used as directed.

10.4 Conditions to avoid

Do not expose to conditions that exceed maximum service temperature. Avoid formation of dust.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

None if stored, handled and transported properly. In case of fire: see section 5.

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No data available

Acute dermal toxicity

No data available

Acute inhalational toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Reproduction toxicity

No data available

Carcinogenicity**Product Name****ArmaGel XGH**

Route of exposure

inhalative

Source

supplier

Comments

amorphous material

Evaluation/classification

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

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

Endocrine disrupting properties

No data available

11.2 Information on other hazards**Other information**

No data available.

SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish (acute)**

No data available

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)

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No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data 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**Results of PBT and vPvB assessment****Product Name****ArmaGel XGH**

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information**Other information**

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Waste code

10 11

wastes from manufacture of glass and glass products

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.
dispose of in accordance with local regulation.**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 UN number or ID number**

Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)

Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

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14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	diiron trioxide	1309-37-1	215-168-2	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Entry 75 is not applicable to the product as it is not used for the preparation of colourants for tattooing purposes.
Adhere to the national regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Further information

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The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.