

**Trade name:** ArmaGel HTL

**Current version :** 2.0.0, issued: 22.05.2023

**Replaced version:** 1.0.0, issued: 01.06.2022

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**ArmaGel HTL**

### 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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**Information provided by / telephone**

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**Advice on Safety Data Sheet**

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**Address**

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Mars Street  
OL9 6LY Oldham  
United Kingdom

email: info.armaform@armacell.com

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## 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**

-

**Hazard statement(s)**

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**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).

**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.

**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	<b>magnesium-hydroxide</b>		
	1309-42-8 215-170-3 - -	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	5.00 - < 10.00 wt%
2	<b>Manganese ferrite black spinel C.I. Pigment Black 26, C.I. No. 77494</b>		
	68186-94-7 269-056-3 - -	-	1.00 - 2.00 wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

**Additional ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>Glass, oxide, chemicals</b>		
	65997-17-3 266-046-0 - -	-	75.00 - 85.00 wt%
2	<b>Silica gel, trimethylsilylated</b>		
	126877-03-0 928-101-3 -	-	8.00 - 12.00 wt%

**3.3 Other information**

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

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

Remove contaminated clothing and shoes and launder thoroughly before reusing.

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Remove to fresh air, keep patient warm and at rest. 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**

No data available.

**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; Metal oxides

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing.

**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. When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

No data available.

**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**

Keep away from sources of ignition.

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## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Store in a dry place.

### 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	Manganese ferrite black spinel C.I. Pigment Black 26, C.I. No. 77494	68186-94-7	269-056-3
	2017/164/EU		
	Manganese and inorganic manganese compounds (as manganese)		
	WEL long-term (8-hr TWA reference period)	0,2 (Inhal)	mg/m <sup>3</sup>
	2017/164/EU		
	Manganese and inorganic manganese compounds (as manganese)		
	WEL long-term (8-hr TWA reference period)	0,05 (Resp)	mg/m <sup>3</sup>
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Manganese and its inorganic compounds (as Mn) Inhalable fraction		
	WEL long-term (8-hr TWA reference period)	0.2	mg/m <sup>3</sup>
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Manganese and its inorganic compounds (as Mn) Respirable fraction		
	WEL long-term (8-hr TWA reference period)	0.05	mg/m <sup>3</sup>
2	Dust		
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Dust respirable		
	WEL long-term (8-hr TWA reference period)	4	mg/m <sup>3</sup>
	Comments	see Definition 44 "Dust"	
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Dust inhalable		
	WEL long-term (8-hr TWA reference period)	10	mg/m <sup>3</sup>
	Comments	see Definition 44 "Dust"	
3	silicon dioxide, chemically prepared	7631-86-9	231-545-4
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Silica, amorphous inhalable dust		
	WEL long-term (8-hr TWA reference period)	6	mg/m <sup>3</sup>
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Silica, amorphous respirable dust		
	WEL long-term (8-hr TWA reference period)	2.4	mg/m <sup>3</sup>

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

Dust mask

#### Eye / face protection

Safety glasses (EN 166)

#### 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.

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Appropriate Material                      Leather

**Other**

Chemical-resistant work clothes.

**Environmental exposure controls**

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>	solid	
<b>Form</b>	solid; Blanket	
<b>Colour</b>	grey	
<b>Odour</b>	No data available	
<b>pH value</b>	No data available	
<b>Boiling point / boiling range</b>	No data available	
<b>Melting point/freezing point</b>	No data available	
<b>Decomposition temperature</b>	No data available	
<b>Flash point</b>	Not applicable	
Source	supplier	
<b>Ignition temperature</b>	No data available	
<b>Flammability</b>	not flammable	
Source	supplier	
<b>Lower explosion limit</b>	No data available	
<b>Upper explosion limit</b>	No data available	
<b>Vapour pressure</b>	Not applicable	
Source	supplier	
<b>Relative vapour density</b>	Not applicable	
Source	supplier	
<b>Evaporation rate</b>	Not applicable	
Source	supplier	
<b>Relative density</b>	No data available	
<b>Density</b>		

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Value	120 - 180 g/cm <sup>3</sup>
Source	supplier

**Solubility**

No data available

**Partition coefficient n-octanol/water (log value)**

No data available

**Kinematic viscosity**

Not applicable

Source supplier

**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.

**10.5 Incompatible materials**

No data available.

**10.6 Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information**

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

**Acute oral toxicity**

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

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**Carcinogenicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Repeated and prolonged exposure to high dust concentrations may lead to irritation of the respiratory tract.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

No data available.

**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)**

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**

No data available.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

**Other information**

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Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

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 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 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	magnesium-hydroxide	1309-42-8	215-170-3	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.

### 15.2 Chemical safety assessment



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No data available.

## 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.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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