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# ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

> **Product Name** White Armor® Granules Trade names White Armor® Granules **Chemical Name** Calcined Kaolin Clay

CAS No. 92704-41-1 14808-60-7

296-473-8

EINECS No. 238-878-4

Nanoform The product does not contain nanoparticles.

REACH Registration No. Not applicable

1.2 Recommended use of the chemical and restrictions

on use

Identified Use(s) Granules - Building Materials Uses Advised Against Anything other than the above.

1.3 Details of the supplier of the safety data sheet

> Manufacturer U.S. Silica Company

> > 24275 Katy Freeway, Suite 600

Katy, TX 77494

U.S.A.

Telephone +1-844-468-7263 Fax +1-281-394-9017

Importer EP Minerals Europe GmbH & Co,

KG Rehrhofer Weg 115 D-29633,

Munster, Germany

Telephone +49 51 92 98970 Fax +49-51 92 989715 E-Mail (competent person) EPME@epminerals.com

1.4 **Emergency Phone No.** Europe: +49 51 92 98970 (08:00- 17:00 CET)

> Languages spoken: English, French and German USA: +1-844-468-7263 (08:00- 17:00 CST)

#### **SECTION 2: HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture This product contains quartz (fine fraction) at: < 1%

> Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust

should be monitored and controlled.

2.1.1 Regulation (EC) No. 1272/2008 (CLP) Not classified as hazardous for supply/use.

2.2 Label elements According to Regulation (EC) No. 1272/2008 (CLP) Product Name

White Armor® Granules

Contains: Calcined Kaolin Clay

(< 1% Crystalline Silica – Quartz (Respirable Dust))

Hazard Pictogram(s) None assigned.

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Signal Word(s)

None assigned.

Hazard Statement(s)

None assigned.

Precautionary Statement(s)

None assigned.

2.3 Other hazards None

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.
Calcined Kaolin Clay	95-100%	92704-41-1	296-473-8
Contains: Quartz (Respirable Dust), <1 Fine Fraction Crystalline silica per SW	eRF calculation < 1	14808-60-7	238-878-4

This substance is not registered under REACH as it is either exempt under Annex V or below the 1 ton/year threshold.

3.2 Mixtures - Not applicable

#### **SECTION 4: FIRST AID MEASURES**



4.2

#### 4.1 Description of first aid measures

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing. If irritation develops and persists, get medical

attention. Blow nose to evacuate dust.

Skin Contact Remove clothing and wash thoroughly before use. Wash affected skin with soap

and water. If skin irritation or rash occurs: Get medical advice/attention.

Flush eyes with water for at least 15 minutes while holding eyelids open. Get

medical attention if eye irritation develops or persists.

Most important symptoms and effects, both acute and

delayed

Eye Contact

Rinse mouth. Give plenty of water to drink. Get medical attention.

Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in

the lungs of fine respirable particles of crystalline silica. Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided. May cause

irritation to the respiratory system.

4.3 Indication of any immediate medical attention and

special treatment needed

Unlikely to be required but if necessary treat symptomatically. There is no specific antidote. Remove person to fresh air and keep comfortable for

breathing.

# **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Extinguishing media Non-flammable. Extinguish with carbon dioxide, dry chemical, foam or

None.

waterspray. As appropriate for surrounding fire.

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

5.3 Advice for fire-fighters

Non-flammable, Non-combustible, Not explosive.

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing

apparatus.

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# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Wear appropriate personal protective equipment, avoid direct contact. Where engineering controls are not fitted or inadequate wear suitable respiratory

protective equipment.

6.2 **Environmental precautions** 

6.3 Methods and material for containment and cleaning

Reference to other sections

No special requirements. Vacuum clean spillage or wet sweep. Caution: wet product will be slippery.

Avoid generation of dust. Transfer to a container for disposal.

See Section: 8, 13

# **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling

6.4

Handle packaged products carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier or check the Good Practice Guide referred to in section 16. Avoid generation of dust. In case of inadequate ventilation wear respiratory protection. Do not breathe dust. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Caution: wet product will be slippery

7.2 Conditions for safe storage, including any incompatibilities

Storage life

Incompatible materials

Atmospheric concentrations should be minimised and kept as low as reasonably practicable below the occupational exposure limit.

Stable under normal conditions. Store in a dry place.

Keep away from: Strong oxidising agents - fluorine, chlorine trifluoride, and

oxygen difluoride and hydrofluoric acid.

7.3 Specific end use(s) See Section: 1.2

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
- 8.1.1 **Occupational Exposure Limits**

The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m3 (8hr TWA) total inhalable dust; 4 mg/m3 (8hr TWA) total respirable dust.

SUBSTANCE	CAS No.	LTEL (8 hr	LTEL (8 hr	STEL	STEL	Note
		TWA ppm)	TWA mg/m³)	(ppm)	(mg/m³)	
Silica, Respirable	-	-	0.1	-	-	WEL: Workplace Exposure Limit (UK
Crystalline						HSE EH40)

Note: For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority

Biological limit value 8.1.2

Not applicable.

8.1.3 **PNECs and DNELs** 

8.2 **Exposure controls** 

Not applicable. A REACH chemical safety assessment has not been carried out.

8.2.1 Appropriate engineering controls Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Avoid dust generation.

Individual protection measures, such as personal 8.2.2 protective equipment (PPE)

Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Avoid dust generation. Do not

breathe dust.

Eye/ face protection

Wear eye protection with side protection (EN166).



Skin protection

Use skin barrier cream before handling the product. Wear suitable gloves if prolonged skin contact is likely - Wear impervious gloves (EN374).

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Respiratory protection



8.2.3

9.2

Atmospheric levels should be controlled in compliance with the occupational exposure limit. In case of inadequate ventilation wear respiratory protection. Recommended: Half-face mask (DIN EN 140), Filter type P2/P3 - efficiency of at least 90%

Thermal hazards
Environmental Exposure Controls

Not applicable.

Avoid wind dispersal.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Appearance White Granules
Odour Odourless
Odour threshold Not available.

pH 6-8

Melting point ~3090°F/1700°C
Initial boiling point and boiling range 4046°F/2230°C
Flash point Non-flammable.
Evaporation rate Not applicable.
Flammability (solid, gas) Non-flammable.
Upper/lower flammability or explosive limits Non-flammable.

Upper/lower flammability or explosive limits

Vapour pressure

Vapour density

Solubility(ies)

Non-flammable.

Not applicable.

Not applicable.

<1% in Water

Soluble in: Hvdrofluoric Acid

Partition coefficient: n-octanol/water Not available.

Auto-ignition temperature

Decomposition Temperature

Viscosity

Not available.

Not available.

Not applicable, Solid.

Explosive properties Not explosive.

Oxidising properties Not oxidising.

Particle characteristics Not available

Other information None.

# **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity Stable under normal conditions.
 10.2 Chemical stability Stable under normal conditions.
 10.3 Possibility of hazardous reactions Stable under normal conditions.

**10.4** Conditions to avoid Avoid contact with: Strong oxidising agents - fluorine, chlorine trifluoride, and

oxygen difluoride.

**10.5** Incompatible materials Reacts violently with - Strong oxidising agents - fluorine, chlorine trifluoride, and

oxygen difluoride and hydrofluoric acid. May cause fire.

**10.6** Hazardous decomposition product(s) Soluble in: Hydrofluoric Acid release of toxic and corrosive gases/vapours:

silicon tetrafluoride.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

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

Acute toxicity

Ingestion Inhalation Skin Contact Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met.

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Eye Contact
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

11.2 Information on other hazards11.2.1 Endocrine disrupting properties

11.2.2 Other information

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

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria. Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans (human carcinogen category 1). However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In 2009, in the Monographs 100 series, IARC confirmed its classification of Silica Dust. Crystalline, in the form of Quartz and Cristobalite (IARC Monographs, Volume 100C, 2012). In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003). So there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see section 16 below).

# **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Endocrine disrupting properties

12.7 Other adverse effects

Not classified as a Marine Pollutant.

Not applicable.

The product has no potential for bioaccumulation. Some organisms accumulate Si(OH)4

The product is predicted to have low mobility in soil.

This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria. None known.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

13.2 Additional Information

Dispose of empty containers and wastes safely. Dispose of contents in accordance with local, state or national legislation.

Packaging waste: Remove all packaging for recovery or disposal. Make sure that packaging is completely empty before recycling. Inform consumer about possible hazards of unclean empty packaging for recycling or disposal.

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# **SECTION 14: TRANSPORT INFORMATION**

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

ADR/RID / IMDG / ICAO/IATA

14.1 UN number Not applicable.
14.2 UN proper shipping name Not applicable.
14.3 Transport hazard class(es) Not applicable.
14.4 Packing group Not applicable.

**14.5 Environmental hazards** Not classified as a Marine Pollutant.

14.6 Special precautions for user Not applicable.
 14.7 Maritime transport in bulk according to IMO Not applicable

instruments

14.8 Additional Information None.

#### **SECTION 15: REGULATORY INFORMATION**

15.1 Safety, health and environmental

regulations/legislation specific for the substance or

mixture

15.1.1 EU regulations

Authorisations and/or Restrictions On Use

15.1.2 National regulations

Wassergefährdungsklasse (Germany) Water hazard class: non-hazardous to water (nwg)

15.2 Chemical Safety Assessment A REACH chemical safety assessment has been carried out...

# **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

None.

#### References:

Existing Safety Data Sheet (SDS).

Existing ECHA registration(s) for Calcined Kaolin Clay (CAS No. 92704-41-1); Quartz (CAS No. 14808-60-7)

Training advice: Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations. A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 April 2006. This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from http://www.nepsi.eu and provide useful information and guidance for the handling of products containing respirable crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

# LEGEND

LTEL Long Term Exposure Limit
STEL Short Term Exposure Limit
DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration

PBT PBT: Persistent, Bioaccumulative and Toxic PvB PBT: vPvT: very Persistent and very Toxic

OECD Organisation for Economic Cooperation and Development
SCOEL The EU Scientific Committee on Occupational Exposure Limits

IARC International Agency for Research on Cancer

SWeRF Size-Weighted Respirable Fraction

#### **Disclaimers**

The information and recommendations contained herein are based upon data believed to be up to- date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by purchase, resale, use or exposure to our silica. Customers and users of silica must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.