

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ArmaReno Sockel

Version	Revision Date:	Print Date	Date of last issue: 08.03.2019
2.0	04.11.2019	05.11.2019	Date of first issue: 08.03.2019

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

1.1 Product identifier

Trade name : ArmaReno Sockel

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

Use of the Sub-
stance/Mixture : Cement

Recommended restrictions : within adequate application - none
on use

1.3 Details of the supplier of the safety data sheet

Company : Caparol Farben Lacke GmbH
Roßdörfer Straße 50
64372 Ober-Ramstadt

Telephone : +496154710
Telefax : +4961547170222
E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone number

Emergency telephone number 1 : +49613284463 GBK GmbH

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006


ArmaReno Socket

Version
2.0

Revision Date:
04.11.2019

Print Date
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Date of last issue: 08.03.2019
Date of first issue: 08.03.2019

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Precautionary statements	:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. Prevention: P260 Do not breathe dust or mist. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection. Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Storage: P405 Store locked up.

Hazardous components which must be listed on the label:

Cement, portland, chemicals

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The product contains chromate reducers, as a result of which the water-soluble chromium (VI) content is less than 0,0002%. In the event of incorrect storage (ingress of moisture) or overlong storage, the chromate reducers contained in the product can lose their efficacy and a sensitising effect of the cement / binding agent may occur in the event of contact with the skin (H317 or EUH203).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Cement, portland, chemicals	65997-15-1 266-043-4	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	>= 20 - < 30
Substances with a workplace exposure limit :			

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Socket

Version 2.0 Revision Date: 04.11.2019 Print Date 05.11.2019 Date of last issue: 08.03.2019
Date of first issue: 08.03.2019

Quartz (SiO ₂)	14808-60-7 238-878-4 01-2120770509-45		>= 50 - < 70
calcium sulfate	7778-18-9 231-900-3 01-2119444918-26		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : First aider needs to protect himself.
Move out of dangerous area.
Never give anything by mouth to an unconscious person.
- If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
If symptoms persist, call a physician.
- In case of eye contact : IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.
- If swallowed : If swallowed, DO NOT induce vomiting.
Clean mouth with water and drink afterwards plenty of water.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : The powder (combined with perspiration) can form an alkaline solution. That may cause skin irritation.
- Eye contact with the powder (dry or wet) may cause serious and potentially irreversible injuries.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Not combustible.
- Unsuitable extinguishing media : Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Socket

Version	Revision Date:	Print Date	Date of last issue: 08.03.2019
2.0	04.11.2019	05.11.2019	Date of first issue: 08.03.2019

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Aqueous cement suspensions have an alkaline effect. Even diluted mixed products containing cement can cause irritation.

5.3 Advice for firefighters

Further information : The product itself does not burn. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation. Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled product while avoiding dust formation and dispose of it as described in Section 13.

Prevent dust from forming and collect any dust mechanically.

6.4 Reference to other sections

For disposal considerations see section 13., For further information see Section 7 of the safety data sheet.

, For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid creating dust. Avoid contact with skin and eyes. Even diluted mixed products containing cement can cause irritation. For personal protection see section 8.

Advice on protection against fire and explosion : The product is not flammable.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, or smoking.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Sockel

Version 2.0 Revision Date: 04.11.2019 Print Date 05.11.2019 Date of last issue: 08.03.2019
Date of first issue: 08.03.2019

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep in a dry, cool place. Observe label precautions.
- Advice on common storage : Do not store together with acids and ammonium salts. Never allow product to get in contact with water during storage.
- Storage class (TRGS 510) : 13, Non Combustible Solids
- Further information on storage stability : Aqueous cement suspensions have an alkaline effect.

7.3 Specific end use(s)

- Specific use(s) : Please follow the technical information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Quartz (SiO ₂)	14808-60-7	TWA (Respirable dust)	0,1 mg/m ³	2004/37/EC
Further information	Carcinogens or mutagens			
calcium sulfate	7778-18-9	AGW (Alveolate fraction)	6 mg/m ³	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Cement, alumina, chemicals	Workers	Inhalation	Acute systemic effects	5,00 mg/m ³
	Workers	Inhalation	Long-term systemic effects	2,50 mg/m ³
calcium sulfate	Consumers	Inhalation	Long-term systemic effects	5,29 mg/m ³
	Consumers	Ingestion	Acute systemic effects	11,40 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	3811,00 mg/m ³
	Workers	Inhalation	Acute systemic effects	5082,00 mg/m ³
	Workers	Inhalation	Long-term systemic effects	21,17 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	1,52 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Socket

Version 2.0 Revision Date: 04.11.2019 Print Date 05.11.2019 Date of last issue: 08.03.2019
Date of first issue: 08.03.2019

Cement, alumina, chemicals	Intermittent use/release	260 mg/l
	Fresh water	260 mg/l
	Sewage treatment plant	10 mg/l
calcium sulfate	Sewage treatment plant	100 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : If dust develops or there is a danger of splashing, use protective goggles with side protection.

German trade association rules - BGR 192 Eye protection

Goggles

Hand protection

Material : nitrile coated cotton gloves
Break through time : > 480 min
Glove thickness : 0,8 mm
Protective index : Class 6

Remarks : If the chemical has soaked through to the skin, the gloves must be removed and disposed. Keep a spare pair of gloves handy.

Skin and body protection

: Long sleeved clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Remove and wash contaminated clothing before re-use.

Skin should be washed after contact.

Respiratory protection

: Breathing apparatus only if aerosol or dust is formed.
Do not breathe dust.

Filter type

: Half mask with a particle filter P2 (EN 143)

German trade association rules - BGR 190 Breathing protection

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : powder
Colour : No data available
Odour : cement-like
Odour Threshold : Not relevant
pH : ca. 11 - 13,5
in contact with water

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Socket

Version 2.0	Revision Date: 04.11.2019	Print Date 05.11.2019	Date of last issue: 08.03.2019 Date of first issue: 08.03.2019
----------------	------------------------------	--------------------------	---

Melting point/freezing point : Not applicable

Boiling point/boiling range : Not applicable

Flash point : not determined

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Vapour pressure : not determined

Relative vapour density : not determined

Relative density : not determined

Solubility(ies)
Water solubility : insoluble

Partition coefficient: n-octanol/water : not determined

Auto-ignition temperature : not determined

Decomposition temperature : Not applicable

Viscosity
Viscosity, dynamic : Not applicable

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

Self-ignition : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Socket

Version	Revision Date:	Print Date	Date of last issue: 08.03.2019
2.0	04.11.2019	05.11.2019	Date of first issue: 08.03.2019

10.4 Conditions to avoid

Conditions to avoid : Exposure to air or moisture over prolonged periods.

10.5 Incompatible materials

Materials to avoid : Ammonium salts
Acids
Aluminium
humid air and water

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

Respiratory or skin sensitisation

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data is available on the product itself.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Socket

Version 2.0	Revision Date: 04.11.2019	Print Date 05.11.2019	Date of last issue: 08.03.2019 Date of first issue: 08.03.2019
----------------	------------------------------	--------------------------	---

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

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Can be landfilled after concentration, when in compliance with local regulations.

Waste should not be disposed of via wastewater.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste Code : used product
170904, mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

unused product
170903*, other construction and demolition wastes (including mixed wastes) containing dangerous substances

SECTION 14: Transport information

14.1 UN number

ADN : Not regulated as a dangerous good

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : UN 3335

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Socket

Version 2.0	Revision Date: 04.11.2019	Print Date 05.11.2019	Date of last issue: 08.03.2019 Date of first issue: 08.03.2019
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14.2 UN proper shipping name

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Aviation regulated solid, n.o.s.
(Cement, portland, chemicals)

14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : 9

14.4 Packing group

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo)
Packing instruction (cargo aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : Class 9 - Miscellaneous dangerous substances and articles
IATA_P (Passenger)
Packing instruction (passenger aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : Class 9 - Miscellaneous dangerous substances and articles

14.5 Environmental hazards

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Sockel

Version	Revision Date:	Print Date	Date of last issue: 08.03.2019
2.0	04.11.2019	05.11.2019	Date of first issue: 08.03.2019

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.

REACH - List of substances subject to authorisation (Annex XIV) : None

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water contaminating class (Germany) : 1 slightly water endangering
Classification according to AwSV, Annex 1 (5.2)

Product code for laquers and paints / Giscode : ZP1 Products containing cement, low in chromate

. : ZP1 Products containing cement, low in chromate

Volatile organic compounds : Directive 2004/42/EC
< 0.1 %
< 1 g/l

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H335 : May cause respiratory irritation.

Full text of other abbreviations

Eye Dam. : Serious eye damage
Skin Irrit. : Skin irritation
STOT SE : Specific target organ toxicity - single exposure
2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Sockel

Version	Revision Date:	Print Date	Date of last issue: 08.03.2019
2.0	04.11.2019	05.11.2019	Date of first issue: 08.03.2019

at work
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
2004/37/EC / TWA : Long term exposure limit
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information:

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.

Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

Sources of key data used to compile the Safety Data Sheet:

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs. Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH

NIOSH - Registry of toxic effects of chemical substances

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)

Toxnet - Toxicology Data Network

Classification of the mixture:

Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335

Classification procedure:

Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ArmaReno Socket

Version	Revision Date:	Print Date	Date of last issue: 08.03.2019
2.0	04.11.2019	05.11.2019	Date of first issue: 08.03.2019

material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our up-stream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

DE / EN