

Version	Revision Date:	Print Date	Date of last issue: 31.10.2019
2.0	02.12.2020	03.12.2020	Date of first issue: 31.10.2019

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

1.1 Product identifier Trade name	: Perlweiß
1.2 Relevant identified uses of the	substance or mixture and uses advised against
	Water-borne coatings
Recommended restrictions : on use	within adequate application - none
1.3 Details of the supplier of the sa	afety data sheet
Company	: Alpina Farben GmbH Roßdörfer Straße 50 64372 Ober-Ramstadt
Telephone	: +496154710
	: +4961547170632
E-mail address Responsi- ble/issuing person	: msds@dr-rmi.com
1.4 Emergency telephone number	
Emergency telephone num- ber 1	: +49613284463 GBK GmbH
SECTION 2: Hazards identificat	tion
2.1 Classification of the substance	e or mixture
Classification (REGULATION Not a hazardous substance or n	
2.2 Label elements	
Labelling (REGULATION (EC) Not a hazardous substance or n	
Precautionary statements :	P101 If medical advice is needed, have product container or label at hand.P102 Keep out of reach of children.

Additional Labelling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not



 Revision Date:	Print Date	Date of last issue: 31.10.2019
02.12.2020	03.12.2020	Date of first issue: 31.10.2019

breathe spray or mist.

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.

Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water.

Use P2 dust filter for grinding.

Do not breathe spray dust. Use A2/P2 combination filter and goggles for paint spraying.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

components			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
titanium dioxide	13463-67-7	Carc. 2; H351	>= 1 - < 10
	236-675-5		
	022-006-00-2		
	01-2119489379-17		
Substances with a workplace	exposure limit :		
Talc (Mg3H2(SiO3)4)	14807-96-6		>= 1 - < 10
	238-877-9		
	01-2120140278-58		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	Never give anything by mouth to an un If you feel unwell, seek medical advice possible). Move out of dangerous area. First aider needs to protect himself.	
If inhaled	Move to fresh air.	
In case of skin contact	Do NOT use solvents or thinners. In case of contact, immediately flush sk	n with soap and plenty



Version 2.0	Revision Date: 02.12.2020	Print Date 03.12.2020	Date of last issue: 31.10.2019 Date of first issue: 31.10.2019		
		of water.			
In case of eye contact		IF IN EYES:	: If eye irritation persists: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
If swallowed		Clean mouth	 Seek medical advice. Clean mouth with water and drink afterwards plenty of water. If swallowed, DO NOT induce vomiting. 		
	mportant symptoms known.	and effects, both a	cute and delayed		
4.3 Indicat	tion of any immediat	e medical attention	and special treatment needed		
Treatr	ment	: No information	n available.		
SECTION	15: Firefighting me	easures			
5.1 Exting	uishing media				

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocar- bons (smoke).

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary.
Further information	:	Standard procedure for chemical fires. The product itself does not burn.



VersionRevision Date:Print DateDate of last issue: 31.10.20192.002.12.202003.12.2020Date of first issue: 31.10.2019	
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SECTION 6: Accidental release measures

Personal precautions	 Use protective shoes or boots with rough rubber sole. Material can create slippery conditions. Do not get in eyes, on skin, or on clothing.
6.2 Environmental precautions	
Environmental precautions	 Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Do not flush into surface water or sanitary sewer system.
6.3 Methods and material for cont	ainment and cleaning up

Methods for cleaning up	:	Keep in suitable, closed containers for disposal.
		Soak up with inert absorbent material (e.g. sand, silica gel,
		acid binder, universal binder, sawdust).

6.4 Reference to other sections

For further information see Section 7 of the safety data sheet. ,For personal protection see section 8.,For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	g	
Advice on safe handling	:	For personal protection see section 8. No special technical protective measures required.
		Please follow the technical information.
Hygiene measures	:	Wash hands before eating, drinking, or smoking. Do not eat, drink or smoke when using this product.
7.2 Conditions for safe storage, i	inc	luding any incompatibilities
Requirements for storage areas and containers	:	Perishable if frozen. To maintain product quality, do not store in heat or direct sunlight. Store at room temperature in the original container. Containers which are opened must be care- fully resealed and kept upright to prevent leakage.
Advice on common storage	:	Keep away from oxidizing agents and strongly acid or alkaline materials.
Storage class (TRGS 510)	:	12, Non Combustible Liquids



Version	Revision Date:	Print Date	Date of last issue: 31.10.2019	
2.0	02.12.2020	03.12.2020	Date of first issue: 31.10.2019	

7.3 Specific end use(s)

Specific use(s)

: This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

ComponentsCAS-No.Value type (Form of exposure)Control parametersBasisTalc (Mg3H2(SiO3)4)14807-96-6AGW (Inhalable fraction)10 mg/m3DE TRGS 900Peak-limit: excursion factor (category): 2;(II)Further information: Senate commission for the review of compounds at the work place dangerous substances, General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in ex- cess of the normal values.Peak-limit: excursion factor (category): 2;(II)Peak-limit: excursion factor (category): 2;(II)Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Commission for dangerous substances, General dust value. For this substance no specific fraction)Peak-limit: excursion factor (category): 2;(II)Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Commission for dangerous substances, General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in ex- cess of the normal values.titanium dioxide13463-67-7 fraction)AGW (Inhalable fraction)10 mg/m3 (Titanium dioxide)DE TRGS 900Peak-limit: excursion factor (category): 2;(II)AGW (Alveolate fraction)1,25 mg/m3 (Titanium dioxide)DE TRGS 900								
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fraction) (Titanium dioxide) 900		Peak-limit: ex	cursion factor (categ	ory): 2;(II)				
			AGW (Alveolate	1,25 mg/m3	DE TRGS			
Peak-limit: excursion factor (category): 2;(II)			fraction)	(Titanium dioxide)	900			
		Peak-limit: ex	cursion factor (categ	ory): 2;(II)				

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

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
titanium dioxide	Consumers	Ingestion	Long-term systemic effects	700,00 mg/kg bw/day
	Workers	Inhalation	Long-term local ef- fects	10,00 mg/m3

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

Substance name	Environmental Compartment	Value
titanium dioxide	Sewage treatment plant	100 mg/l
	Fresh water	0,184 mg/l



ersion 0	Revision Date: 02.12.2020			ue: 31.10.2019 sue: 31.10.2019
			Soil	100 mg/kg dry weight (d.w.)
			Marine water	0,0184 mg/l
			Fresh water sediment	1000 mg/kg dry weight (d.w.)
			Marine sediment	100 mg/kg dry weight (d.w.)
			Intermittent use/release	0,193 mg/l
2 Expos	sure controls			
Perso	onal protective equip	ment		
Eye p	protection	:	Always wear eye protection when eye contact with the product cann not required	
			German trade association rules -	BGR 192 Eye protection
			Goggles	
Ma Gl	protection aterial ove thickness otective index	:	Nitrile rubber 0,2 mm Class 3	
Re	emarks	:	Before removing gloves clean the Wear suitable gloves tested to EN German trade association leaflet:	J 374.
Skin a	and body protection	:	Safety shoes Long sleeved clothing	
			Choose body protection according centration of the dangerous subst	
			Skin should be washed after conta	act.
Respi	iratory protection	:	No personal respiratory protective quired.	equipment normally re-
			German trade association rules - tion	BGR 190 Breathing protec-
			When spraying, use face mask wi spray dust.	ith particle filter P2 against



Version	Revision Date:	Print Date	Date of last issue: 31.10.2019	
2.0	02.12.2020	03.12.2020	Date of first issue: 31.10.2019	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical Appearance	l an :	d chemical properties liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	Not relevant
рН	:	11,4 Concentration: 100 %
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
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
Density	:	1,5100 g/cm3
Solubility(ies) Water solubility	:	completely miscible
Partition coefficient: n- octanol/water	:	not determined
Auto-ignition temperature	:	not determined
Decomposition temperature	:	Not applicable
Viscosity Viscosity, dynamic	:	No data available
Explosive properties	:	Not applicable



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Version 2.0	Revision Date: 02.12.2020	Print Date 03.12.2020	Date of last issue: 31.10.2019 Date of first issue: 31.10.2019
Oxidi	zing properties	: Not applicab	le
	information mability (liquids)	: The product	is not flammable.
SECTION	N 10: Stability and r	eactivity	
10.1 Read	tivity		
No de	ecomposition if stored	and applied as direc	ted.
	nical stability ecomposition if stored	and applied as direc	ted.
10.3 Poss	ibility of hazardous r	eactions	
Haza	rdous reactions	: No decompo	osition if stored and applied as directed.
10.4 Cond	litions to avoid		
Cond	itions to avoid	: Protect from	frost, heat and sunlight.
10.5 Incoi	mpatible materials		
Mate	rials to avoid		e with acids and bases. e with oxidizing agents.
	rdous decomposition	•	ted.
SECTION	N 11: Toxicological	information	
11.1 Infor	mation on toxicologi	cal effects	
Acut	e toxicity		
Prod	uct:		
Acute	e oral toxicity	: Remarks: Ba	sed on available data. the classification criteria

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.



Perlweiß Version **Revision Date:** Print Date Date of last issue: 31.10.2019 2.0 02.12.2020 03.12.2020 Date of first issue: 31.10.2019 Skin corrosion/irritation Product: Remarks : Based on OECD test 431 this product is not classified as skin corrosive/skin irritant. Information given is based on tests on products of similar composition. Serious eye damage/eye irritation Product: Remarks According to the classification criteria of the European Union, 1 the product is not considered as being an eye irritant. Respiratory or skin sensitisation Product: Remarks : No data available **SECTION 12: Ecological information** 12.1 Toxicity Product: Toxicity to fish Remarks: No data available : Toxicity to daphnia and other : Remarks: No data available aquatic invertebrates 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 2 to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..



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Version 2.0	Revision Date: 02.12.2020		int Date .12.2020	Date of last issue: 31.10.2019 Date of first issue: 31.10.2019		
12.6 Othe	er adverse effects					
Proc	luct:					
	Additional ecological infor- : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.					
SECTION 13: Disposal considerations						
13.1 Was	te treatment methods					
Prod	luct	:				
			Waste should no	t be disposed of via wastewater.		
Cont	aminated packaging	:	Only completely cling.	emptied containers should be given for recy-		
Was	te Code	:	used product 080112, waste p	aint and varnish other than those mentioned		

in 08 01 11*

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks

: Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.



VersionRevision Date:Print DateDate of last issue: 31.10.20192.002.12.202003.12.2020Date of first issue: 31.10.2019		Revision Date: 02.12.2020	Print Date 03.12.2020	Date of last issue: 31.10.2019 Date of first issue: 31.10.2019	
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SECTION 15: Regulatory information

15. ture		ent	al regulations/legislation	n	specific for the substance or mix-
	REACH - Restrictions on the m the market and use of certain d preparations and articles (Anne	gerous substances,	:	Not applicable	
	REACH - Candidate List of Sub Concern for Authorisation (Artic	, ,	:	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 gener- ated.	
	REACH - List of substances su (Annex XIV)	ect to authorisation :	:	None	
	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the contro major-accident hazards involving dangerous substances. Not applicable				
	Water contaminating class (Germany)	:	1 slightly water end Classification according t		
	Product code for laquers and paints / Giscode	:	M-DF01 Water-based pa	ain	ts, solvent-free
		:	BSW10 Coating material content	ls,	water-based, low preservative
	Volatile organic compounds	:	Directive 2004/42/EC < 0.1 % < 1 g/l		

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.



Version	Revision Date:	Print Date	Date of last issue: 31.10.2019	
2.0	02.12.2020	03.12.2020	Date of first issue: 31.10.2019	

SECTION 16: Other information

Full text of H-Statements						
H351	:	Suspected of causing cancer if inhaled.				
Full text of other abbreviations						
Carc. DE TRGS 900 DE TRGS 900 / AGW	:	Carcinogenicity Germany. TRGS 900 - Occupational exposure limit values. 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; AIIC - Australian Inventory of Industrial Chemicals; 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 Coil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IIMDG - International Maritime Dangerous Goods; IMO - International Convention for the Prevention tration to 50 % of a test population; LDSO - Lethal Dose to 50% of a test population; KECI - Korea Existing Chemicals Inventory; LCSO - Lethal Concentration to 50 % of a test population; LDSO - Lethal Dose to 50% of a test population; Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxis substance; PICCS - Philippines Inventory of Chemicals Of Chemicals 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, Authorisati

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



Version	Revision Date:	Print Date	Date of last issue: 31.10.2019
2.0	02.12.2020	03.12.2020	Date of first issue: 31.10.2019
2.0	02.12.2020	03.12.2020	Date of first issue. 51.10.2019

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 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 upstream-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.

DE / EN