

Printing date 27.09.2017

Version: 8.1

Revision: 27.09.2017

SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier · Trade name: DARACLAR® 920 · Registration number: 01-2119379499-16-XXXX 1.2 Relevant identified uses of the substance or mixture and uses advised against Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU19 Building and construction work SU1 Agriculture, forestry, fishery SU7 Printing and reproduction of recorded media SU5 Manufacture of textiles, leather, fur SU6b Manufacture of pulp, paper and paper products SU11 Manufacture of rubber products SU12 Manufacture of plastics products, including compounding and conversion SU16 Manufacture of computer, electronic and optical products, electrical equipment SU8 Manufacture of bulk, large scale chemicals (including petroleum products) Product category PC0 Other PC2 Adsorbents PC40 Extraction agents PC1 Adhesives, sealants PC9a Coatings and paints, thinners, paint removers PC9b Fillers, putties, plasters, modelling clay PC8 Biocidal products PC12 Fertilisers PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents PC27 Plant protection products PC31 Polishes and wax blends PC18 Ink and toners PC23 Leather treatment products PC26 Paper and board treatment products PC32 Polymer preparations and compounds PC34 Textile dyes, and impregnating products PC35 Washing and cleaning products (including solvent based products) PC28 Perfumes, fragrances PC14 Metal surface treatment products PC15 Non-metal-surface treatment products PC33 Semiconductors PC19 Intermediate PC37 Water treatment chemicals Process category PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC5 Mixing or blending in batch processes PROC14 Tabletting, compression, extrusion, pelletisation, granulation PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities · Environmental release category ERC2 Formulation into mixture · Article category Not applicable. 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: **GRACE GmbH** In der Hollerhecke 1



Printing date 27.09.2017

Version: 8.1

Revision: 27.09.2017

Trade name: DARACLAR® 920

D-67547 Worms Tel.: +49 (0)6241 - 403 1549 FAX: +49 (0)6241 - 403 1211

- Further information obtainable from: Abteilung Sicherheit und Umweltschutz, GRACE Europe Holding GmbH. MSDS.Davison@grace.com
- · 1.4 Emergency telephone number: Tel.: +49 (0)172 7129276

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
 The substance is not classified according to the CLP regulation
- The substance is not classified according to the CLP regulation.
- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 None
- · Hazard pictograms None
- · Signal word None
- · Hazard statements None

· 2.3 Other hazards

The product is very adsorbent and may have a drying effect on skin and eyes. When exceeding the WEL (Workplace Exposure Limit) a mechanical overburdening of the respiratory system is possible.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

· Description:

· Components (CAS No. and EINECS No.):

CAS: 7631-86-9 amorphous silicon dioxide, chemically prepared

EINECS: 231-545-4 Reg.nr.: 01-2119379499-16-XXXX

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Take note of the following instructions:
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin. Wash with water.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

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(Contd. of page 1)



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Version: 8.1

Revision: 27.09.2017

Trade name: DARACLAR® 920

• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

(Contd. of page 2)

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: No further relevant information available.
- · 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Wear personal protective equipment.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions: Damp down dust with water spray.
- 6.3 Methods and material for containment and cleaning up: Sweep the spill area; avoid raising dust.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
 No dangerous substances are released.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Prevent formation of dust. Keep receptacles tightly sealed. Provide suction extractors if dust is formed. Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal. Prevent static electric sparks. · Information about fire - and explosion protection: Protect against electrostatic charges. The product is not flammable. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: • Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. · Further information about storage conditions: Keep container tightly sealed. Store in dry conditions. This product is hygroscopic.
 - 7.3 Specific end use(s) No further relevant information available.

(Contd. on page 4)



Version: 8.1

Revision: 27.09.2017

Trade name: DARACLAR® 920

(Contd. of page 3)

Indredion	e with limit values	that require monitoring at the workplace: Not required.
DNELs	s with mill values	that require monitoring at the workplace. Not required.
	amorphous silico	n dioxide, chemically prepared
Inhalative	DNEL(acute-local)	4 mg/m ³ (Worker) with reference to the German OEL of 4 mg/m ³ for synthetic amorphous silica
	DNEL(long-local)	4 mg/m ³ (Worker) with reference to the German OEL of 4 mg/m ³ for synthetic amorphous silica
Additional	information: Valio	l lists at time of creation were used as basis.
Appropria	ure controls te engineering co protective equipm	ntrols No further relevant information available. ent:
	rotective and hygi precautionary meas	enic measures: sures are to be adhered to when handling chemicals.
Respirator If the WEL Filter P2	y protection: value is exceeded.	
Wear glove Use gloves	of stable material	ainst mechanical hazards according to EN 388. (e.g. Nitrile) - if necessary tri-coted to improve the wearability. cleaning agents and skin cosmetics.
F AND	Protective gloves.	
Check the The glove preparation	permeability prior to material has to be in 1.	ves prior to each use. b each anew use of the glove. mpermeable and resistant to the product/ the substance/ the use of skin-protecting agents is recommended.
Material of		
	inimum requiremen er, BR	ts for efficiency level 1 for all groups.
The selecti of quality a substances	on of the suitable g nd varies from mar	the material: \geq 0.11 mm loves does not only depend on the material, but also on further manufacturer to manufacturer. As the product is a preparation of sever the glove material can not be calculated in advance and has therefore lication.
		aterial has to be obtained from the manufacturer of the protective gloves a
For the mix (Permeatio	ture of chemicals r n according to EN	nentioned below the penetration time has to be at least 480 minutes 374 Part 3: Level 6). ts for efficiency level 1 for all groups.



Printing date 27.09.2017

Version: 8.1

Revision: 27.09.2017

(Contd. of page 4)

Trade name: DARACLAR® 920

Nitrile rubber, NBR

- For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR Nitrile rubber, NBR
- · Not suitable are gloves made of the following materials: cloth gloves
- · Eye protection:

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Safety glasses.

· Body protection: Protective work clothing.

•	ical properties
9.1 Information on basic physical and	chemical properties
General Information	
Appearance: Form:	Powder
Colour:	White
•••••	
Odour: Odour threshold:	Characteristic
	Not applicable.
pH-value at 20 °C:	4.0-9.0
Change in condition	
Melting point/freezing point:	>1700 °C
Initial boiling point and boiling range	e: >1700 °C
Flash point:	Not determined.
Flammability (solid, gas):	Product is not flammable.
Ignition temperature:	Not applicable.
Decomposition temperature:	Not applicable.
Auto-ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	- Vol %
Upper:	- Vol %
Vapour pressure at 20 °C:	- hPa
Density at 20 °C:	2,17 - 2,20 g/cm³
Bulk density at 20 °C:	70 - 600 kg/m³
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic at 20 °C:	- mPas
Molecular weight	60.08 g/mol (calculated)

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Printing date 27.09.2017

Version: 8.1

Revision: 27.09.2017

Trade name: DARACLAR® 920

(Contd. of page 5)

· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

• 10.2 Chemical stability No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

• **10.5 Incompatible materials:** No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· Information on the likely routes of exposure

- · Delayed and immediate effects and chronic effects from short or long term exposure
- · 11.1 Information on toxicological effects

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

· LD/LC50 values relevant for classification: 7631-86-9 amorphous silicon dioxide, chemically prepared LD50 >5,000 mg/kg (rat) (OECD 401) Oral Dermal LD50 >5,000 mg/kg (rabbit) (no guidance available) >140->2,000 mg/m3/4h (rat) (OCED 403) Inhalative LC0 Maximum attainable concentration, mortality does not appear. · Primary irritant effect: · Skin corrosion/irritation 7631-86-9 amorphous silicon dioxide, chemically prepared Skin IS 0 (rabbit) (OECD 404) Based on available data, the classification criteria are not met. Serious eye damage/irritation 7631-86-9 amorphous silicon dioxide, chemically prepared Eye IS 0 (rabbit) (OECD 405) Based on available data, the classification criteria are not met. · Respiratory or skin sensitisation Based on available data, the classification criteria are not met. · Respiratory sensitisation No further relevant information available. · Skin sensitisation No further relevant information available. · Repeated dose toxicity 7631-86-9 amorphous silicon dioxide, chemically prepared NOAEL (90 d) 9,000 mg/kg bw/day (rat) (OECD 408) Oral Inhalative NOAEC (90 d) 1 mg/m³ (rat) (OECD 413) CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) · Carcinogenicity No further relevant information available. Mutagenicity 7631-86-9 amorphous silicon dioxide, chemically prepared

AMES Test >5 mg/plate (in-vitro) (OECD 471) negative, with and without metabolic activation

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(Contd. on page 7)

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Printing date 27.09.2017

Version: 8.1

Revision: 27.09.2017

(Contd. of page 6)

Trade name: DARACLAR® 920

Reproductive toxicity

7631-86-9 amorphous silicon dioxide, chemically prepared

Oral NOAEL (maternal toxicity) 1,350 mg/kg bw/day (rat) (OECD 414)

NOAEL (teratogenicity) 1,350 mg/kg bw/day (rat) (OECD 414)

• Specific target organ toxicity (single exposure) No further relevant information available.

· Specific target organ toxicity (repeated exposure) No further relevant information available.

· Aspiration hazard No further relevant information available.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:
- · Fish toxicity

7631-86-9 amorphous silicon dioxide, chemically prepared

LC0 (96 h) (static) 10,000 mg/l (zebra fish) (OECD 203)

· Water flea toxicity

7631-86-9 amorphous silicon dioxide, chemically prepared

EC50 (24 h) >1,000 mg/l (Daphnia magna) (OECD 202)

Algae toxicity

7631-86-9 amorphous silicon dioxide, chemically prepared

EC50 (72 h) >10,000 mg/l (Scenedesmus subspicatus) (OECD 201) comparable substance

· 12.2 Persistence and degradability No further relevant information available.

· Other information:

Amorphous silica dioxide is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process.

- · 12.3 Bioaccumulative potential Does not accumulate in organisms
- **12.4 Mobility in soil** No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

- Recommendation: Disposal must be made according to official regulations.
- · Waste disposal key:

The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

(Contd. on page 8)

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Version: 8.1

Revision: 27.09.2017

Trade name: DARACLAR® 920

(Contd. of page 7)

SECTION 14: Transport informati	on	
· 14.1 UN-Number		
· ADR, ADN, IMDG, IATA	None	
 · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA 	None	
 14.3 Transport hazard class(es) 		
· ADR, ADN, IMDG, IATA · Class	None	
· 14.4 Packing group		
· ADR, IMDG, IATA	None	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.		
 Transport/Additional information: 	Not dangerous according to the above specifications. GRACE recommendation for air transport: Cargo aircraft only.	

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to Regulation (EC) No 1272/2008 None
- · Hazard pictograms None
- · Signal word None
- · Hazard statements None
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · National regulations:
- · Waterhazard class: WGK nwg (AwSV of 18.04.2017): not hazardous to waters.
- · Registered in the international inventory lists:
- TSČA (USA) DSL (Canada) AICS (Australia) KECI (Korea) PICCS (Philippines) IECSC (China) EINECS/REACH (Europe) MITI (Japan) NZIoC (New Zealand) CSNN (Taiwan)
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 9)

GB



Printing date 27.09.2017

Version: 8.1

Revision: 27.09.2017

Trade name: DARACLAR® 920

	(Contd. of page 8)
 Department issuing SDS: Abteilung Sicherheit und Umweltschutz, GRACE Europe Holding GmbH. HS-Code 2811 2200 	
· Contact: Sales Offices	
Germany Grace GmbH, D-67545 Worms Tel.: +49 6241/40300, Fax: +49 6241/4031211	
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 The first date of preparation 27.01.2015 Number of revision times and the latest revision date 8.1 / 27.09.2017 	
 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de f Concerning the International Transport of Dangerous Goods by Rail) 	fer (Regulations
ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreem International Carriage of Dangerous Goods by Road)	nent concerning the
IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association	(Contd. on page 10)



Printing date 27.09.2017

Version: 8.1

Revision: 27.09.2017

(Contd. of page 9)

Trade name: DARACLAR® 920

GHS: Globally Harmonised System of Classification and Labelling of Chemicals DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Others No further relevant information available.
* Data compared to the previous version altered.

(Contd. on page 11)

GB



Version: 8.1

Revision: 27.09.2017

Trade name: DARACLAR® 920

(Contd. of page 10)

Annex: Exposure scenario	
 Short title of the exposure scenario 	
· Sector of Use	
SU5 Manufacture of textiles, leather, fur	
SU3 Industrial uses: Uses of substances as such or in preparations at	
SU10 Formulation [mixing] of preparations and/or re-packaging (exclu	ding alloys)
SU19 Building and construction work	
SU1 Agriculture, forestry, fishery SU7 Printing and reproduction of recorded media	
SU5 Manufacture of textiles, leather, fur	
SU6b Manufacture of pulp, paper and paper products	
SU11 Manufacture of rubber products	
SU12 Manufacture of plastics products, including compounding and c	
SU16 Manufacture of computer, electronic and optical products, electronic	
SU8 Manufacture of bulk, large scale chemicals (including petroleum	products)
Product category	
PC0 Other PC2 Adsorbents	
PC2 Adsorbents PC40 Extraction agents	
PC1 Adhesives, sealants	
PC9a Coatings and paints, thinners, paint removers	
PC9b Fillers, putties, plasters, modelling clay	
PC8 Biocidal products	
PC12 Fertilisers	and the Providence of the
PC20 Processing aids such as pH-regulators, flocculants, precipitants	, neutralization agents
PC27 Plant protection products PC31 Polishes and wax blends	
PC18 Ink and toners	
PC23 Leather treatment products	
PC26 Paper and board treatment products	
PC32 Polymer preparations and compounds	
PC34 Textile dyes, and impregnating products	
PC35 Washing and cleaning products (including solvent based product	cts)
PC28 Perfumes, fragrances	
PC14 Metal surface treatment products PC15 Non-metal-surface treatment products	
PC33 Semiconductors	
PC19 Intermediate	
PC37 Water treatment chemicals	
 Process category 	
PROC2 Chemical production or refinery in closed continuous process	with occasional controlled
exposure or processes with equivalent containment conditions	le stale sure se se suith
PROC3 Manufacture or formulation in the chemical industry in closed	
occasional controlled exposure or processes with equivalent containme PROC5 Mixing or blending in batch processes	
PROC14 Tabletting, compression, extrusion, pelletisation, granulation	
PROC9 Transfer of substance or mixture into small containers (dedica	
weighing)	
PROC1 Chemical production or refinery in closed process without like	lihood of exposure or
processes with equivalent containment conditions.	at ways algorithms for stilling
PROC8a Transfer of substance or mixture (charging and discharging)	
PROC8b Transfer of substance or mixture (charging and discharging) • Article category Not applicable.	at dedicated facilities
• Environmental release category ERC2 Formulation into mixture	
Description of the activities / processes covered in the Exposure S	Scenario
See section 1 of the annex to the Safety Data Sheet.	
	(Contd. on page 12)

(Contd. on page 12)

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Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 27.09.2017

Version: 8.1

Revision: 27.09.2017

Trade name: DARACLAR® 920

	(Contd. of page 11
· Conditions of use	
 Duration and frequency 5 workdays/week. 	
· Physical parameters	
· Physical state Solid	
• Concentration of the substance in the mixture The substance • Other operational conditions	is main component.
 Other operational conditions affecting environmental exposu Other operational conditions affecting consumer exposure N 	
• Other operational conditions affecting consumer exposure de Not applicable.	uring the use of the product
Risk management measures	
· Worker protection	
· Organisational protective measures No special measures requ	ired.
• Technical protective measures No special measures required.	
· Personal protective measures No special measures required.	
· Measures for consumer protection No special measures requir	ed.
Environmental protection measures	
· Air No special measures required.	
· Water No special measures required.	
• Disposal measures Disposal must be made according to official	regulations.
· Disposal procedures	
Must not be disposed together with household garbage. Do not all system.	low product to reach sewage
Dispose of product residues with household waste.	
 Waste type Partially emptied and uncleaned packaging 	
· Exposure estimation	
Consumer Not relevant for this Exposure Scenario.	
· Guidance for downstream users No further relevant information	n available.