

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 20-Apr-2010

Revision Date 24-Jan-2024

Revision Number 5

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

1.1. Product identifier

Product Description:	Silicon carbide powder
Cat No. :	A14470
Synonyms	Silicon Carbide.
Index No	014-048-00-5
CAS No	409-21-2
EC No	206-991-8
Molecular Formula	SiC
REACH registration number	-

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

Recommended Use	Laboratory chemicals.
Uses advised against	No Information available

1.3. Details of the supplier of the safety data sheet

Company

Avocado Research Chemicals Ltd. (Part of Thermo Fisher Scientific) Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom Office Tel: +44 (0) 1524 850506 Office Fax: +44 (0) 1524 850608

E-mail address

begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Physical hazards

Based on available data, the classification criteria are not met

Silicon carbide powder

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements

None required

2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB) Inhalation of dust in high concentration may cause irritation of respiratory system Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	CAS No	EC No	Weight %	CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567
Silicon carbide	409-21-2	EEC No. 206-991-8	<=100	-

REACH registration number	-

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.	
Self-Protection of the First Aider	No special precautions required.	
4.2. Most important symptoms and effects, both acute and delayed		

None reasonably foreseeable.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Silicon dioxide.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes or clothing. Avoid dust formation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510 Class 13 Storage Class (LGK) (Germany)

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

The manufacturer recommends a 5 ppm PEL. List source(s): **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. **IRE -** 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

Component	The United Kingdom	European Union	Ireland
Silicon carbide	STEL: 30 mg/m ³ 15 min		TWA: 3 mg/m ³ 8 hr.
	STEL: 12 mg/m ³ 15 min		respirable dust
	TWA: 10 mg/m ³ 8 hr		TWA: 0.1 f/cc 8 hr. fibrous
	TWA: 4 mg/m ³ 8 hr		TWA: 10 mg/m ³ 8 hr. total
	_		inhalable dust
			STEL: 30 mg/m ³ 15 min
			STEL: 9 mg/m ³ 15 min
			STEL: 0.3 f/cc 15 min

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Silicon carbide 409-21-2(<=100)		DNEL = 94mg/m ³		

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

Engineering Measures

None under normal use conditions.

Personal protective equipment Eye Protection

Hand Protection

Wear safety glasses with side shields (or goggles) (European standard - EN 166)

Protective gloves

Revision Date 24-Jan-2024

Silicon carbide powder

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Natural rubber Nitrile rubber Neoprene PVC	See manufacturers recommendations	-	EN 374	(minimum requirement)
Skin and body prote	ection Wear ap	propriate protective g	loves and clothing to p	prevent skin exposure.

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection	No protective equipment is needed under normal use conditions.
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particle filter
Small scale/Laboratory use	Maintain adequate ventilation

Environmental exposure controls No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Solid	
Appearance Odor Odor Threshold Melting Point/Range Softening Point Boiling Point/Range Flammability (liquid) Flammability (solid,gas) Explosion Limits	Black Odorless No data available 2700 °C / 4892 °F No data available Not applicable No information available No data available	Solid
Flash Point Autoignition Temperature Decomposition Temperature pH	Not applicable No data available No data available Not applicable	Method - No information available
Viscosity Water Solubility Solubility in other solvents Partition Coefficient (n-octanol/wat	Not applicable Insoluble in water No information available	Solid
Vapor Pressure Density / Specific Gravity Bulk Density Vapor Density	No information available 3.2 No data available Not applicable	Solid
Particle characteristics 9.2. Other information	No data available	
Molecular Formula Molecular Weight Evaporation Rate	SiC 40.0855 Not applicable - Solid	

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity	None known, based on information available
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous react	ions
Hazardous Polymerization Hazardous Reactions	Hazardous polymerization does not occur. None under normal processing.
10.4. Conditions to avoid	Incompatible products. Excess heat. Avoid dust formation.
10.5. Incompatible materials	Strong oxidizing agents.

10.6. Hazardous decomposition products

Silicon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information	Product does not present an acute toxicity hazard based on known information
(a) acute toxicity; Oral Dermal Inhalation	Not classified Not classified Not classified
(b) skin corrosion/irritation;	Not classified
(c) serious eye damage/irritation;	Not classified
(d) respiratory or skin sensitization Respiratory Skin	Not classified Not classified
(e) germ cell mutagenicity;	Not classified
(f) carcinogenicity;	Not classified The table below indicates whether each agency has listed any ingredient as a carcinogen. Some agencies list SiC microfibers/whiskers as potential carcinogens, based on limited

Some agencies list SiC microfibers/whiskers as potential carcinogens, based on limited experimental animal data that suggests a carcinogenic effect.

Γ	Component	EU	UK	Germany	IARC
Г	Silicon carbide	Carc Cat. 1B		Cat. 2 (>0.1% respirable	Group 2A
				whiskers/microfibers)	

known or suspected endocrine disruptors. SECTION 12: ECOLOGICAL INFORMATION 12.1. Toxicity_ Ecotoxicity effects Do not empty into drains. Do not flush into surface water or sanitary sewer system. 12.2. Persistence and degradability Persistence Degradability Insoluble in water. Not relevant for inorganic substances. 12.3. Bioaccumulative potential May have some potential to bioaccumulate 12.4. Mobility in soil Spillage unlikely to penetrate soil. Is not likely mobile in the environment due its low water solubility. 12.5. Results of PBT and vPvB assessment Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB). 12.6. Endocrine disrupting properties Endocrine Disruptor Information This product does not contain any known or suspected substance This product does not contain any known or suspected substance This product does not contain any known or suspected substance	Silicon carbide powder	Revision Date 24-Jan-2024
Target Organs No information available. (i) aspiration hazard; Not applicable Solid Symptoms / effects,both acute and delayed No information available. 11.2. Information on other hazards. Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain a known or suspected endocrine disruptors. 12.1. Toxicity_ Ecotoxicity effects Do not empty into drains. Do not flush into surface water or sanitary sewer system. 12.2. Persistence and degradability Persistence Degradability Insoluble in water. Not relevant for inorganic substances. 12.3. Bioaccumulative potential May have some potential to bioaccumulate 12.4. Mobility in soil Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low water solubility. 12.5. Results of PET and vPUB assessment Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB). 12.6. Endocrine Disruptor Information This product does not contain any known or suspected substance 12.7. Other adverse effects Persistent Organic Pollutant This product does not contain any known or suspected substance	(h) STOT-single exposure;	Not classified
(i) aspiration hazard; Not applicable Solid Symptoms / effects,both acute and delayed No information available. 11.2. Information on other hazards. Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain a known or suspected endocrine disruptors. Image: Section 12: ECOLOGICAL INFORMATION 12.1. Toxicity Ecotoxicity effects Do not empty into drains. Do not flush into surface water or sanitary sewer system. 12.2. Persistence and degradability Degradability Insoluble in water. Not relevant for inorganic substances. 12.3. Bioaccumulative potential May have some potential to bioaccumulate 12.4. Mobility in soil Spillage unlikely to penetrate soil. Is not likely mobile in the environment due its low water solubility. 12.5. Endocrine disrupting. Properties Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors 12.7. Other adverse effects Persistent Organic Pollutant Core Depletion Potential This product does not contain any known or suspected substance This product does not contain any known or suspected substance	(i) STOT-repeated exposure;	Not classified
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SECTION 13: DISPOSAL CONSIDERATIONS	Persistent Organic Pollutant	
	SE	CTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Revision Date 24-Jan-2024

Contaminated Packaging	Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.
European Waste Catalogue (EWC)	According to the European Waste Catalog, Waste Codes are not product specific, but application specific.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO	Not regulated
<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u>	
ADR	Not regulated
14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	
ΙΑΤΑ	Not regulated
<u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u>	
14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required.
14.7. Maritime transport in bulk according to IMO instruments	Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories

Silicon carbide powder

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Silicon carbide	409-21-2	206-991-8	-	-	Х	Х	KE-31031	Х	Х
Component	CAS No	TSCA		iventory ation - Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Silicon carbide	409-21-2	Х	ACT	IVE	Х	-	Х	Х	Х

Silicon carbide powder

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Silicon carbide	409-21-2	-	Use restricted. See item 28. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	-

Seveso III Directive (2012/18/EC)

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report		
			Notification	Requirements		
Ī	Silicon carbide	409-21-2	Not applicable	Not applicable		

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

See table for values

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Silicon carbide	nwg	

Component	France - INRS (Tables of occupational diseases)
Silicon carbide	Tableaux des maladies professionnelles (TMP) - RG 25

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) is not required

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

Legend

Silicon carbide powder

Revision Date 24-Jan-2024

CAS - Chemical Abstracts Service	TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemica	
Substances/EU List of Notified Chemical Substances	Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances	ENCS - Japanese Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances	AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances	NZIOC - New Zealand Inventory of Chemicals
RECE - Rolean Existing and Evaluated Chemical Substances	NZIOC - New Zealand Inventory of Chemicals
WEL - Workplace Exposure Limit	TWA - Time Weighted Average
ACGIH - American Conference of Governmental Industrial Hygienists	IARC - International Agency for Research on Cancer
DNEL - Derived No Effect Level	
	Predicted No Effect Concentration (PNEC)
RPE - Respiratory Protective Equipment	LD50 - Lethal Dose 50%
LC50 - Lethal Concentration 50%	EC50 - Effective Concentration 50%
NOEC - No Observed Effect Concentration	POW - Partition coefficient Octanol:Water
PBT - Persistent, Bioaccumulative, Toxic	vPvB - very Persistent, very Bioaccumulative
ADD European Agreement Concerning the International Corrigge of	ICAO//ATA International Civil Aviation Organization/International Air
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association
IMO/IMDG - International Maritime Organization/International Maritime	MARPOL - International Convention for the Prevention of Pollution from
Dangerous Goods Code	Ships
OECD - Organisation for Economic Co-operation and Development	ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor	VOC - (Volatile Organic Compound)
Key literature references and sources for data	
https://echa.europa.eu/information-on-chemicals	
Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, F	RTECS
Training Adviso	
Training Advice	

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Prepared By	Health, Safety and Environmental Department
Creation Date	20-Apr-2010
Revision Date	24-Jan-2024
Revision Summary	New emergency telephone response service provider.

This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

Disclaimer

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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

End of Safety Data Sheet