according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Silica gel 60, 0,03-0,2 mm

article number: **P090**Version: **3.0 en**date of compilation: 2016-06-27
Revision: 2020-09-25

Replaces version of: 2017-08-25

Version: (2)

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

#### 1.1 Product identifier

Identification of the substance Silica gel 60, 0,03-0,2 mm

Article number P090

Registration number (REACH) 01-2119379499-16-xxxx

EC number 231-545-4 CAS number 7631-86-9

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

**Identified uses:** laboratory chemical

laboratory and analytical use

#### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:** +49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data : Department Health, Safety and Environment

sheet:

e-mail (competent person): sicherheit@carlroth.de

#### 1.4 Emergency telephone number

Name	Street	Postal code/ city	Telephone	Website
National Poisons Inform- ation Centre Beaumont Hospital	Beaumont Road	Dublin 9	01 809 2166	https://www.poisons.ie/

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

not required

Signal word not required

Ireland (en) Page 1 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Silica gel 60, 0,03-0,2 mm

article number: P090

#### 2.3 Other hazards

There is no additional information.

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Name of substance Silicon dioxide, amorphous

Registration number (REACH) 01-2119379499-16-xxxx

EC number 231-545-4
CAS number 7631-86-9

Molecular formula SiO<sub>2</sub>

Molar mass 60,09 g/<sub>mol</sub>

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

No special measures are necessary.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following skin contact**

Rinse skin with water/shower.

#### Following eye contact

Rinse cautiously with water for several minutes.

### **Following ingestion**

Rinse mouth.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date

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

none

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings

Ireland (en) Page 2 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Silica gel 60, 0,03-0,2 mm

article number: P090

#### 5.2 Special hazards arising from the substance or mixture

Non-combustible.

#### 5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Control of dust.

#### 6.2 Environmental precautions

Not required.

### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Take up mechanically.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Avoid dust formation.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

### **Incompatible substances or mixtures**

Observe hints for combined storage.

#### **Consideration of other advice**

#### • Ventilation requirements

Use local and general ventilation.

#### • Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C.

Ireland (en) Page 3 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Silica gel 60, 0,03-0,2 mm

article number: P090

#### 7.3 Specific end use(s)

No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

#### **National limit values**

#### **Occupational exposure limit values (Workplace Exposure Limits)**

Country	Name of agent	CAS No	Nota- tion	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m³]	Source
IE	dusts non-specific		i	OELV	10				S.I. No. 619 of 2001
IE	dusts non-specific		r	OELV	4				S.I. No. 619 of 2001
IE	silica, amorphous	112926- 00-8	i	OELV	6				S.I. No. 619 of 2001
IE	silica, amorphous	112926- 00-8	r	OELV	2,4				S.I. No. 619 of 2001

Notation

Ceiling value is a limit value above which exposure should not occur Inhalable fraction Ceiling-C

Respirable fraction

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) STEL

**TWA** Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average (unless otherwise specified)

#### 8.2 **Exposure controls**

#### Individual protection measures (personal protective equipment)

#### **Eye/face protection**





Use safety goggle with side protection.

#### Skin protection





#### hand protection

Hand protection is not required.

#### **Respiratory protection**





Ireland (en) Page 4 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Silica gel 60, 0,03-0,2 mm

article number: P090

Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

### **Environmental exposure controls**

Keep away from drains, surface and ground water.

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state solid (powder)

Colour white

Odour odourless

Odour threshold No data available

Other physical and chemical parameters

pH (value) 6 - 8 (water:  $50 \, {}^{9}/_{l}$ ,  $20 \, {}^{\circ}$ C)

Melting point/freezing point 1.713 °C

Initial boiling point and boiling range This information is not available.

Flash point not applicable
Evaporation rate no data available

Flammability (solid, gas)

These information are not available

**Explosive limits** 

lower explosion limit (LEL)
 upper explosion limit (UEL)
 this information is not available
 Explosion limits of dust clouds
 these information are not available
 Vapour pressure
 This information is not available.

Density  $2,1-2,2\,^{9}/_{cm^{3}}$  at 20 °C

Vapour density This information is not available.

Bulk density  $\sim 200 - 600 \text{ kg/m}^3$ 

Relative density Information on this property is not available.

Solubility(ies)

Water solubility The study does not need to be conducted be-

cause the substance is known to be insoluble in

water

Partition coefficient

n-octanol/water (log KOW)

This information is not available.

Auto-ignition temperature Information on this property is not available.

Decomposition temperature no data available

Viscosity not relevant (solid matter)

Explosive properties Shall not be classified as explosive

Ireland (en) Page 5 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Silica gel 60, 0,03-0,2 mm

article number: P090

Oxidising properties none

9.2 Other information

Particle size 30 – 200 µm

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Shall not be classified as acutely toxic.

Exposure route	Endpoint	Value	Species	Source
oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat	ECHA

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### • Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

Ireland (en) Page 6 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Silica gel 60, 0,03-0,2 mm

article number: P090

#### Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

data are not available

#### • If in eyes

data are not available

#### If inhaled

data are not available

#### • If on skin

data are not available

#### Other information

Health effects are not known, This information is based upon the present state of our knowledge

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

### 12.2 Process of degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Data are not available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

### Sewage disposal-relevant information

Do not empty into drains.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

Ireland (en) Page 7 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Silica gel 60, 0,03-0,2 mm

article number: P090

### **SECTION 14: Transport information**

**14.1** UN number (not subject to transport regulations)

**14.2** UN proper shipping name not relevant

**14.3** Transport hazard class(es) not relevant

Class -

**14.4** Packing group not relevant not assigned to a packing group

**14.5** Environmental hazards none (non-environmentally hazardous acc. to the danger-

ous goods regulations)

14.6 Special precautions for user

There is no additional information.

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

The cargo is not intended to be carried in bulk.

- 14.8 Information for each of the UN Model Regulations
  - Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

• International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

• International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)
  - Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) Not listed.
  - Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

Not listed.

Regulation 850/2004/EC on persistent organic pollutants (POP)

Not listed.

Restrictions according to REACH, Annex XVII

not listed

Name acc. to inventory	CAS No	Wt%	Listed in	Remarks
Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		100	A)	

Legend

A) Indicative list of the main pollutants

Ireland (en) Page 8 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Silica gel 60, 0,03-0,2 mm

article number: P090

Restrictions according to REACH, Title VIII

None.

• List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list not listed

#### Seveso Directive

2	2012/18/EU (Seveso III)					
	No	Dangerous substance/hazard categories Qualifying quantity (tonnes) for the application of lower and upper-tier requirements				
		not assigned				

#### • Directive 75/324/EEC relating to aerosol dispensers

#### Filling batch

**Deco-Paint Directive (2004/42/EC)** 

VOC content	0 % 0 <sup>g</sup> / <sub>I</sub>
Directive on industrial emissions (VOCs 2010/75	/FII)

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	0 %
VOC content	0 <sup>g</sup> / <sub>l</sub>

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

# Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

Name acc. to inventory	CAS No	Listed in	Remarks
Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		A)	

#### Legend

A)

Indicative list of the main pollutants

#### Regulation 98/2013/EU on the marketing and use of explosives precursors

not listed

Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

not listed

#### **National inventories**

Substance is listed in the following national inventories:

Ireland (en) Page 9 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



#### Silica gel 60, 0,03-0,2 mm

article number: P090

Country	National inventories	Status
AU	AICS	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

Legend

AICS CICR CSCL-ENCS DSL ECSI IECSC Australian Inventory of Chemical Substances Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS)

CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)
DSL Domestic Substances List (DSL)
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances
KECI Korea Existing Chemicals Inventory
NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory
TSCA Toxic Substance Control Act

Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

### **SECTION 16: Other information**

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
8.1	Relevant DNELs/DMELs/PNECs and other threshold levels		yes
8.1	• human health values		yes
8.1		human health values: change in the listing (table)	yes
14.4	Packing group: not relevant	Packing group: not relevant not assigned to a packing group	yes

Ireland (en) Page 10 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Silica gel 60, 0,03-0,2 mm

article number: P090

#### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001
STEL	short-term exposure limit
SVHC	Substance of Very High Concern
TWA	time-weighted average
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative

#### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EU GHS) Dangerous Goods Regulations (DGR) for the air transport (IATA) International Maritime Dangerous Goods Code (IMDG)

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

not relevant.

Ireland (en) Page 11 / 12

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Silica gel 60, 0,03-0,2 mm

article number: P090

#### Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Ireland (en) Page 12 / 12