acc. to Regulation (EC) No. 1907/2006 (REACH)

Desiccant sachet Silica gel orange 50 g (9 x 12 cm), with indicator

article number: N079 Version: 3.0 en Replaces version of: 2019-10-31 Version: (2)

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

Product identifier 1.1

Identification of the substance

Article number

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

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 Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

This mixture does not meet the criteria for classification.

2.2 Label elements

Labelling

not required

date of compilation: 2017-05-23 Revision: 2022-06-15



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2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Silica gel	CAS No 7631-86-9	≥93			IOELV
	EC No 231-545-4				

Notes

IOELV: Substance with a community indicative occupational exposure limit value

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

There is no major dust generation possible.

Following skin contact

Rinse skin with water/shower.

Following eye contact

Rinse cautiously with water for several minutes.

Following ingestion

Call a doctor if you feel unwell.

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



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SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water, foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Non-combustible.

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Sulphur oxides (SOx)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. 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

No special measures are necessary.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures are necessary.

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:

Specific designs for storage rooms or vessels Recommended storage temperature: 15 – 25 °C

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)

Coun try	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
GB	silica, amorphous	7631-86-9	WEL	6			i	EH40/2005
GB	silica, amorphous	7631-86-9	WEL	2,4			r	EH40/2005

Notation

Ceiling-CCeiling value is a limit value above which exposure should not occuriInhalable fractionrRespirable fractionSTELShort-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-
minute period (unless otherwise specified)TWATime-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.



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Skin protection



hand protection

Hand protection is not required.

Respiratory protection



Usually no personal respirative protection necessary. Respiratory protection necessary at: Dust formation. 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

Physical statesolidFormgranulateColourorangeOdourodourlessMelting point/freezing point>1.000 °CBoiling point or initial boiling point and boiling range(unknown) not determinedFlammabilitynon-combustibleLower and upper explosion limitnot determinedFlash pointnot determinedAuto-ignition temperaturenot determinedDecomposition temperature>150 °CpH (value)2,5 - 5 (in aqueous solution: 50 °J, 20 °C) (suspension)Kinematic viscositynot relevantSolubility(ies)water solubilityWater solubilitynot determinedPartition coefficientnot determinedPartition coefficientnot determinedPartition coefficientnot determinedPartition coefficientnot determined		•
ColourorangeOdourodourlessMelting point/freezing point>1.000 °CBoiling point or initial boiling point and boiling range(unknown) not determinedFlammabilitynon-combustibleLower and upper explosion limitnot determinedFlash pointnot applicableAuto-ignition temperaturenot determinedPH (value)>150 °CpH (value)2,5 - 5 (in aqueous solution: 50 g/h, 20 °C) (suspension)Kinematic viscositynot relevantSolubility(ies) Water solubilitynot determinedPartition coefficientnot determined	Physical state	solid
OdourodourlessMelting point/freezing point>1.000 °CBoiling point or initial boiling point and boiling range(unknown) not determinedFlammabilitynon-combustibleLower and upper explosion limitnot determinedFlash pointnot applicableAuto-ignition temperaturenot determinedDecomposition temperature>150 °CpH (value)2,5 - 5 (in aqueous solution: 50 °J/L 20 °C) (suspension)Kinematic viscositynot relevantSolubility(ies) Water solubilitynot determinedPartition coefficient	Form	granulate
Melting point/freezing point>1.000 °CBoiling point or initial boiling point and boiling range(unknown) not determinedFlammabilitynon-combustibleLower and upper explosion limitnot determinedFlash pointnot applicableAuto-ignition temperaturenot determinedDecomposition temperature>150 °CPH (value)2,5 - 5 (in aqueous solution: 50 °J/ ₁ , 20 °C) (suspension)Kinematic viscositynot relevantSolubility(ies) Water solubilitynot determinedPartition coefficient	Colour	orange
Boiling point or initial boiling point and boiling range(unknown) not determinedFlammabilitynon-combustibleLower and upper explosion limitnot determinedFlash pointnot applicableAuto-ignition temperaturenot determinedDecomposition temperature>150 °CpH (value)2,5 - 5 (in aqueous solution: 50 °J/L, 20 °C) (suspension)Kinematic viscositynot relevantSolubility(ies)water solubilityWater solubilitynot determined	Odour	odourless
rangenon-combustibleFlammabilitynon-combustibleLower and upper explosion limitnot determinedFlash pointnot applicableAuto-ignition temperaturenot determinedDecomposition temperature>150 °CpH (value)2,5 - 5 (in aqueous solution: 50 °J/L, 20 °C) (suspension)Kinematic viscositynot relevantSolubility(ies)not determinedWater solubilitynot determinedPartition coefficient	Melting point/freezing point	>1.000 °C
Lower and upper explosion limitnot determinedFlash pointnot applicableAuto-ignition temperaturenot determinedDecomposition temperature>150 °CpH (value)2,5 - 5 (in aqueous solution: 50 °/1, 20 °C) (suspension)Kinematic viscositynot relevantSolubility(ies) Water solubilitynot determinedPartition coefficient		(unknown) not determined
Flash pointnot applicableAuto-ignition temperaturenot determinedDecomposition temperature>150 °CpH (value)2,5 - 5 (in aqueous solution: 50 °J/I, 20 °C) (suspension)Kinematic viscositynot relevantSolubility(ies) Water solubilitynot determinedPartition coefficient	Flammability	non-combustible
Auto-ignition temperaturenot determinedDecomposition temperature>150 °CpH (value)2,5 - 5 (in aqueous solution: 50 °J, 20 °C) (suspension)Kinematic viscositynot relevantSolubility(ies)water solubilityWater solubilitynot determinedPartition coefficient	Lower and upper explosion limit	not determined
Decomposition temperature>150 °CpH (value)2,5 - 5 (in aqueous solution: 50 °/ ₁ , 20 °C) (suspension)Kinematic viscositynot relevantSolubility(ies) Water solubilitynot determinedPartition coefficient	Flash point	not applicable
pH (value) 2,5 – 5 (in aqueous solution: 50 ^g / _l , 20 °C) (suspen- sion) Not relevant not relevant Solubility(ies) Water solubility not determined Partition coefficient	Auto-ignition temperature	not determined
sion)Kinematic viscosityNot relevantSolubility(ies) Water solubilityWater solubilityPartition coefficient	Decomposition temperature	>150 °C
Solubility(ies) Water solubility Partition coefficient	pH (value)	2,5 – 5 (in aqueous solution: 50 ^g / _l , 20 °C) (suspen- sion)
Water solubility not determined Partition coefficient	Kinematic viscosity	not relevant
Partition coefficient	Solubility(ies)	
	Water solubility	not determined
Partition coefficient n-octanol/water (log value): not relevant (inorganic)		
	Partition coefficient n-octanol/water (log value):	not relevant (inorganic)



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	Vapour pressure	not determined
	Density and/or relative density	
	Density	not determined
	Relative vapour density	information on this property is not available
	Bulk density	~ 680 – 780 ^{kg} / _{m³}
	Particle characteristics	No data available.
	Other safety parameters	
	Oxidising properties	none

9.2 Other information

Information with regard to physical hazard classes:

Other safety characteristics:

(physical hazards): not relevant There is no additional information.

hazard classes acc. to GHS

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

Keep away from heat. Decompostion takes place from temperatures above: >150 °C.

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

This mixture does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic.

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Acute toxicity of component	cute toxicity of components of the mixture						
Name of substance	CAS No	Exposure route	Endpoint	Value	Species		
Silica gel	7631-86-9	oral	LD50	>5.000 ^{mg} / _{kg}	rat		
Silica gel	7631-86-9	inhalation: dust/mist	LC50	>5,01 ^{mg} / _l /4h	rat		
Silica gel	7631-86-9	dermal	LD50	>5.000 ^{mg} / _{kg}	rabbit		

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.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified 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.

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.

11.2 Endocrine disrupting properties

None of the ingredients are listed.

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11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture						
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time	
Silica gel	7631-86-9	LC50	>5.000 ^{mg} / _l	fish	96 h	
Silica gel	7631-86-9	EC50	>5.000 ^{mg} / _l	aquatic invertebrates	48 h	
Silica gel	7631-86-9	ErC50	>173,1 ^{mg} / _l	algae	72 h	

Aquatic toxicity (chronic) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Silica gel	7631-86-9	EC50	>1.000 ^{mg} / _l	microorganisms	3 h

Biodegradation

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

12.2 Process of degradability

Data are not available.

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 Endocrine disrupting properties** None of the ingredients are listed.
- **12.7 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.



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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. Waste catalogue ordinance (Germany).

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.

not assigned

not assigned

gerous goods regulations

none

not subject to transport regulations

non-environmentally hazardous acc. to the dan-

SECTION 14: Transport information

- 14.1 UN number or ID number
- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments 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) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information 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)

Seveso Directive

2012/	012/18/EU (Seveso III)					
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes			
	not assigned					

Deco-Paint Directive



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VOC content	0 %		
ndustrial Emissions Directive (IED)			
VOC content	0 %		

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)					
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks	
Silica gel	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess 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 on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

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Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	not all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	not all ingredients are listed

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EÌNEĆS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chémicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Rea.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Alignment to regulation:

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1	Classification according to Regulation (EC) No 1272/2008 (CLP): This mixture does not meet the criteria for clas- sification in accordance with Regulation No 1272/2008/EC.	Classification acc. to GHS: This mixture does not meet the criteria for clas- sification.	yes
2.2	Signal word: not required		yes
2.3	Other hazards: There is no additional information.	Other hazards	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing 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
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
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
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average

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Abbr.	Descriptions of used abbreviations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.