

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

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

#### 1.1. Product identifier

Product name : Silica gel orange  
SDS-number : 000000021494  
Type of product : Substance  
Remarks : Document according to Art. 32 of Regulation (EC) 1907/2006.  
Chemical name : Aluminosilicate  
CAS-No. : 1327-36-2  
REACH Registration Number : UK-01-3612963661

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

Use of the Substance/Mixture : Laboratory chemicals  
Uses advised against : none

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

Company	: Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
---------	---	--

Telephone :  
For further information, please contact: : SafetyDataSheet@Honeywell.com

#### 1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)  
+1-303-389-1414 (Medical)  
Country based Poison : see chapter 15.1

**Silica gel orange**

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Control Center

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2. Label elements**

**REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.3. Other hazards**

Product dust may be irritating to eyes, skin and respiratory system. Results of PBT and vPvB assessment, see chapter 12.5.

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

**3.1. Substance**

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Aluminosilicate	1327-36-2 UK-01-3612963661 215-475-1		100 %	N.C.*

N.C.\* - Non-hazardous substance - for information only

**3.2. Mixture**

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

*Inhalation:*

Move to fresh air. If respiratory problems develop, obtain medical attention.

*Skin contact:*

Wash off with soap and plenty of water. If skin irritation persists, call a physician.

*Eye contact:*

Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a physician.

*Ingestion:*

Do NOT induce vomiting. Drink at least 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.

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

No data available

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

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

:

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

---

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

*Suitable extinguishing media:*

Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

*Extinguishing media which shall not be used for safety reasons:*

Do not use a solid water stream as it may scatter and spread fire.

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

The product itself does not burn.

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

---

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation. Avoid dust formation. Wear appropriate personal protective equipment.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

#### 6.3. Methods and materials for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.  
Spilled product should be disposed of in accordance with all applicable government regulations.  
Never return spills in original containers for re-use.

#### 6.4. Reference to other sections

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

For personal protection see section 8.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

*Advice on safe handling:*

Handle and open container with care. Avoid dust formation. Provide exhaust ventilation if dust is formed.

*Advice on protection against fire and explosion:*

The product itself does not burn. Normal measures for preventive fire protection.

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

*Further information on storage conditions:*

Store in original container. Keep container tightly closed in a dry and well-ventilated place.

#### 7.3. Specific end use(s)

no additional data available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

##### DNEL/ PNEC-Values

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
Aluminosilicate	Workers / Long-term systemic effects		3 mg/m3	Inhalation	Based on general dust exposure
Aluminosilicate	Workers / Acute local effects		3 mg/m3	Inhalation	Based on general dust exposure

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Component	Environmental compartment / Value	Remarks
Aluminosilicate	Fresh water: 4,1 mg/l	
Aluminosilicate	Intermittent use/release: 25 mg/l	
Aluminosilicate	Marine water: 0,082 mg/l	

### 8.2. Exposure controls

#### Occupational exposure controls

Handle in accordance with good industrial hygiene and safety practice.  
The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

##### *Respiratory protection:*

In case of insufficient ventilation, wear suitable respiratory equipment.  
Disposable filtering half mask Class FFP1 (EN149).  
Half mask with a particle filter P1 (EN143).

##### *Hand protection:*

Glove material: Natural Latex  
Break through time: > 480 min  
Glove thickness: 0,6 mm  
Lapren®706  
Gloves must be inspected prior to use.  
Replace when worn.

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Remarks: Supplementary note: The specifications are based on information and tests from similar substances by analogy.  
Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.  
Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.  
Manufacturer's directions for use should be observed because of great diversity of types .  
Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

*Eye protection:*  
Safety goggles

*Skin and body protection:*  
Lightweight protective clothing

### Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

## SECTION 9: Physical and chemical properties

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

Physical state	: solid
Colour	: colourless
Odour	: odourless
Melting point/range	: > 550 °C
Boiling point/boiling range	: > 999 °C
Flammability	: The product is not flammable.
Upper explosion limit	: No data available
Lower explosion limit	: No data available

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No decomposition if used as directed.
pH	:	4 - 8
Viscosity, kinematic	:	Not applicable
Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	No data available
Bulk density	:	400 - 900 kg/m <sup>3</sup>
Relative vapour density	:	No data available

### 9.2 Other Information

Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Evaporation rate	:	No data available
Viscosity, dynamic	:	Not applicable

---

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended storage conditions.

### 10.2. Chemical stability



## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

No decomposition if used as directed.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

Protect from moisture.

### 10.5. Incompatible materials

No dangerous reaction known under conditions of normal use.

### 10.6. Hazardous decomposition products

Aluminum oxides  
Silicon oxides

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### *Acute oral toxicity:*

LD50

Species: Rat

Sex: female

Value: > 2.000 mg/kg

Method: OECD Test Guideline 423

REACH dossier "read-across"

#### *Acute dermal toxicity:*

LD50

Species: Rabbit

Value: > 5.000 mg/kg

Method: OECD Test Guideline 402

REACH dossier "read-across"

#### *Acute inhalation toxicity:*

LC50

Species: Rat

Value: > 2,07 mg/l

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Exposure time: 4 h  
Test atmosphere: dust/mist  
REACH dossier "read-across"

*Skin irritation:*  
Species: Rabbit  
Result: No skin irritation

*Eye irritation:*  
Species: Rabbit  
Result: No eye irritation

*Respiratory or skin sensitisation:*  
No data available

*Carcinogenicity:*  
Note: Not classified as a human carcinogen. Substance not expected to be a carcinogen based on available data.

*Germ cell mutagenicity:*  
Note: In vitro tests did not show mutagenic effects

*Aspiration hazard:*  
No data available

### 11.2. Information on other hazards

Endocrine disrupting properties  
No data available

*Other information:*  
No data available

---

## SECTION 12: Ecological information

### 12.1. Toxicity

*Toxicity to fish:*  
LC0  
Species: Brachydanio rerio (zebrafish)  
Value: > 1.000 mg/l  
Exposure time: 96 h

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

REACH dossier "read-across"

*Toxicity to aquatic plants:*

EC50

Biomass

Species: Desmodesmus subspicatus (green algae)

Value: 410 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

REACH dossier "read-across"

*Toxicity to Microorganisms:*

No data available

*Toxicity to aquatic invertebrates:*

EC50

Species: Daphnia magna (Water flea)

Value: > 10.000 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

REACH dossier "read-across"

### 12.2. Persistence and degradability

*Biodegradability:*

The methods for determining biodegradability are not applicable to inorganic substances.

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

Not applicable

### 12.6. Endocrine disrupting properties

No data available

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

### 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

*Product:*

Dispose according to legal requirements.

*Packaging:*

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID:Not dangerous goods    IMDG:Not dangerous goods    IATA:Not dangerous goods

### 14.2 UN proper shipping name

ADR/RID:Not dangerous goods

IMDG:Not dangerous goods

IATA:Not dangerous goods

### 14.3 Transport hazard class(es)

### 14.4 Packaging group

### 14.5 Environmental hazards

ADR/RID:no

Marine pollutant: no

### 14.6 Special precautions for user

No data available

### 14.7 Maritime transport in bulk according to IMO instruments

**Silica gel orange**

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

No data available

**SECTION 15: Regulatory information**

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

Basis	Value	Remarks
Directive 2012/18/EC		Not applicable
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1\%$ (w/w).

**Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation); +46104566786
Switzerland	145

**Silica gel orange**

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Italy	0382 24444	United Kingdom	(+44) 844 892 0111
Germany	Berlin : 030/19240		
	Bonn : 0228/19240		
	Erfurt : 0361/730730		
	Freiburg : 0761/19240		
	Göttingen : 0551/19240		
	Homburg : 06841/19240		
	Mainz : 06131/19240		
	Munich : 089/19240		
Latvia	+37167042473		

**Other inventory information**

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended  
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)  
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List  
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)  
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)  
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)  
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand  
Not in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)

## Silica gel orange

13767-1KG

Version 2.1

Revision Date 17.12.2022

Supersedes 1

On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

---

## SECTION 16: Other information

### Further information

All directives and regulations refer to amended versions.  
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community

CAS Chemical Abstracts Service

DNEL Derived no effect level

PNEC Predicted no effect level

vPvB Very persistent and very bioaccumulative substance

PBT Persistent, bioaccumulative und toxic substance

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. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.