Silica gel indicating 2-5mm, orange to colourless, pore diameter 20-30 A

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

1.1. Product identifier

Trade name

Silica gel indicating 2-5mm, orange to colourless, pore diameter 20-30 A

CAS number 7631-86-9

EC number 231-545-4

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

Research and development.

Not suitable for use in

Not suitable for human consumption or veterinary purposes.

1.3. Details of the supplier of the safety data sheet **Supplier**

Molekula Group

Address Molekula Ltd, Lingfield Way, Darlington, **DL1 4XX Darlington** United Kingdom

Telephone +44 (0) 3302 000 333

Email info@molekula.com

Web site www.molekula.com

Contact person **Kevin Banks**

<u>Email</u> +44 (0) 7769276927





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1.4. Emergency telephone number

Poison center/Additional emergency number 0344 892 0111 - National Poisons Information Service (Newcastle Centre)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Specific Target Organ Toxicity — Repeated exposure, hazard category 1 Eye irritation, hazard category 2 Specific Target Organ Toxicity — Single exposure, hazard category 3

Hazard statements

H319, H335, H372

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



<u>Signal word</u> Warning

Hazard statements

H319 Causes serious eye irritation.H335 May cause respiratory irritation.H372 Causes damage to organs through prolonged or repeated exposure .



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Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe .
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water/.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Silica gel indicating 2-5mm, orange to colourless, pore diameter 20-30 A	7631-86-9 231-545-4 - -	100%	Eye Irrit. 2, STOT RE 1, STOT SE 3		-

Molecular weight 60.08

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel.



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Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.

Skin contact

IF ON SKIN: Wash with plenty of water. Continue to rinse for at least 15 minutes and seek medical attention. Get medical advice/attention if you feel unwell.

Eye contact

Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention.

Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

Information for doctors

First aiders/ medical personnel need to protect themselves.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation

Single exposure may cause the following adverse effects: Upper respiratory irritation. Difficulty in breathing.

Skin contact

Single exposure may cause the following adverse effects: Severe skin irritation.

Eye contact

Single exposure may cause the following adverse effects: Severe irritation.

Ingestion

Single exposure may cause the following adverse effects: Severe abdominal pain. Nausea, vomiting.

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

Treat symptomatically. No special treatment requirement.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

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Unsuitable extinguishing media

No specific fire fighting procedure given.

5.2. Special hazards arising from the substance or mixture

Specific hazards: Not combustible.

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Carbon dioxide (CO2). Carbon monoxide (CO). Ambient fire may liberate hazardous vapours.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Evacuate area. Avoid breathing gas, fume, vapours or spray. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. Avoid contact with skin and eyes. For personal protection, see section 8.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

For precautions see section 2.2. Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid ingestion and inhalation.

General hygiene

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use. Wash skin thoroughly after handling.





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7.2. Conditions for safe storage, including any incompatibilities

Store at ambient temperature. Store in a dry place. Store in a closed container.

7.3. Specific end use(s)

No specific usage precautions noted.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

TWA. 0.1mg/m3. Respirable fraction. UK. EH40. WEL = Workplace Exposure Limit. TWA. 6mg/m3. Inhalable dust. UK. EH40. WEL = Workplace Exposure Limit. TWA. 2.4mg/m3. Respirable dust. UK. EH40. WEL = Workplace Exposure Limit.

8.2. Exposure controls

Personal Protective Equipment Symbols



Eye / face protection Wear eye protection.

<u>Hand protection</u> Wear protective gloves.

Always inspect gloves before use. If signs of wear and tear are noticed then the gloves should be replaced.

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash contaminated skin thoroughly after handling.

Other skin protection

Wash skin thoroughly after handling.

Respiratory protection

Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided.

Environmental exposure controls

Avoid discharge into drains.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
<u>Physical state</u>
Solid

Colour White / off-white.

<u>Odour</u> No data available

<u>Melting point / freezing point</u> No data available

Boiling point or initial boiling point and boiling range

No data available

Flammability No data available

Lower and upper explosion limit

No data available

<u>Flash point</u> No data available

<u>Auto-ignition temperature</u> No data available

Decomposition temperature

No data available

pH No data available

Kinematic viscosity No data available

<u>Solubility</u> No data available

Partition coefficient n-octanol/water No data available

Vapour pressure No data available



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Density and/or relative density

No data available

Relative vapour density

No data available

Particle characteristics

No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products See section 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
<u>Acute toxicity</u>

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
Silica gel indicating 2- 5mm, orange to colour- less, pore diameter 20-	LD50	>5000 mg/kg	Dermal	Rabbit



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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
30 A 7631-86-9 / 231-545-4				

Skin corrosion/irritation

Product / Substance name CAS / EC no.	Result	Species
Silica gel indicating 2-5mm, orange to col- ourless, pore diameter 20-30 A 7631-86-9 / 231-545-4	No skin irritation.	Rabbit

Serious eye damage/irritation

Product / Substance name CAS / EC no.	Result	Species
Silica gel indicating 2-5mm, orange to col- ourless, pore diameter 20-30 A 7631-86-9 / 231-545-4	No eye irritation.	Rabbit

Respiratory or skin sensitisation

Product / Substance name CAS / EC no.	Result	Species
Silica gel indicating 2-5mm, orange to col- ourless, pore diameter 20-30 A 7631-86-9 / 231-545-4	Negative.	Guinea Pig

Aspiration hazard

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

11.2. Information on other hazards

No data available

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SECTION 12: Ecological information

12.1. Toxicity

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Silica gel indicating 2- 5mm, orange to colour- less, pore diameter 20- 30 A 7631-86-9 / 231-545-4	NOEC	60 mg/l	72 hours	Pseudokirchneriella sub- capitata
Silica gel indicating 2- 5mm, orange to colour- less, pore diameter 20- 30 A 7631-86-9 / 231-545-4	IC50	440 mg/l	72 hours	Pseudokirchneriella sub- capitata

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Silica gel indicating 2- 5mm, orange to colour- less, pore diameter 20- 30 A 7631-86-9 / 231-545-4	EC0	≥10,000 mg/l	24 hours	Daphnia magna

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment No data available



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12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

- 14.6. Special precautions for user Not applicable
- **14.7. Maritime transport in bulk according to IMO instruments** Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. This material safety data sheet complies with the requirements of Regulation (EU) 2020/878.

National regulations

No data available

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15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Phrase meaning

STOT RE 1 - Specific Target Organ Toxicity — Repeated exposure, hazard category 1 Eye Irrit. 2 - Eye irritation, hazard category 2

STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3 H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure .

H372 Causes damage to organs through prolonged or repeated exposure .?.