

# SAFETY DATA SHEET (SDS)

Version 1.0

Effective date: 15-01-2025

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Product name: POTASSIUM ALUMINIUM SULFATE DODECAHYDRATE  
Other names: Potassium alum, Potash alum, Alum  
Brand: toySimply, Czech Republic  
CAS No.: 10043-67-1  
REACH: Exempt (food/pharma; non-hazardous)

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

Identified uses: Educational chemistry, crystal growing, laboratory reagent

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

toySimply, s.r.o.  
Pomezí 300  
569 71 Pomezí  
Czech Republic

+420 737 202 016

[michal.broz@toysimply.cz](mailto:michal.broz@toysimply.cz)

[www.toysimply.cz](http://www.toysimply.cz)

### 1.4 Emergency telephone number

Toxicological information centre Czech Republic: +420 224 91 92 93

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Eye irritation** – Category 2.

### 2.2 Label elements



**Pictogram:** GHS07

**Signal word:** Warning

**Hazard Statement:**

H319 – Causes serious eye irritation.

**Precautionary statements:**

P264 Wash hands thoroughly after handling

P280 Wear eye protection when handling bulk material

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

### 2.3 Other hazards

No components considered to be PBT or vPvB.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Component	Concentration	CAS No.	EC No.
Potassium aluminium sulfate dodecahydrate	>99%	10043-67-1	233-141-3

### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

<b>Inhalation</b>	Move to fresh air. Seek medical advice if irritation persists.
<b>Ingestion</b>	Rinse mouth with water. Do not induce vomiting. Seek medical advice if large quantities ingested.
<b>Skin contact</b>	Wash with water and soap.
<b>Eye contact</b>	Rinse immediately with water for several minutes. Seek medical advice if irritation persists.

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

<b>Inhalation</b>	Throat irritation
<b>Ingestion</b>	Nausea.
<b>Skin contact</b>	Redness, itching.
<b>Eye contact</b>	Possible irritation if dust gets into eyes.
<b>Delayed effect / Immediate effect</b>	None

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

No data available

### SECTION 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media**

No limitations: Water, foam, dry powder, CO<sub>2</sub>

**Unsuitable extinguishing media**

None

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

Not flammable. Thermal decomposition may produce sulfur oxides and aluminium oxides.

**Hazardous combustion products**

CO/CO<sub>2</sub>, irritating sulfur or aluminium fumes

**5.3 Advice for firefighters**

Standard firefighter PPE; SCBA if smoke/fumes present.

**5.4 Further information**

None

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

Avoid dust formation; wear eye protection.

**6.2 Environmental precautions**

Prevent large releases to drains.

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

Sweep/collect mechanically; rinse residues with water.

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Avoid crushing and creating dust. Good hygiene (wash hands).

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

**Storage conditions**

Tightly closed. Dry. Room temperature

**Storage stability**

None

**Storage class**

None

**7.3 Specific end use(s)**

None

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Ingredients with workplace control parameters**

Not normally required for consumer handling; use ventilation for bulk handling/packing.

**8.2 Exposure controls**

**Personal protective equipment**

**Eye/face protection**

Safety goggles.

**Skin protection**

Chemical-resistant gloves

**Respiratory protection**

Dust mask if airborne dust is generated

**Hygiene**

Wash hands after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state:	Solid crystalline powder
Color:	White
Odor:	Odorless
Melting point:	92°C
Boiling point:	Decomposes
Flammability:	Not flammable
Lower and upper explosion limit:	Not explosive
Flash point:	N/A
Autoignition temperature:	N/A
Decomposition temperature:	N/A
pH:	3-4
Kinematic viscosity:	No data
Solubility:	Soluble in water
Partition coefficient n-octanol/water:	No data
Vapor pressure:	No data
Density and/or relative density:	1.75 g/cm <sup>3</sup>
Relative vapor density:	N/A
Particle characteristics:	N/A

**9.2 Other information:**

SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity:**

No hazardous reactions.

**10.2 Chemical stability:**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions:**

**Products:** Sulfur and/or aluminium oxides

**10.4 Conditions to avoid:**

None

**10.5 Incompatible materials:**

Strong bases

SECTION 11. TOXICOLOGICAL INFORMATION

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

**Acute toxicity:** Low

**Skin corrosion/irritation:** None

**Serious eye damage/irritation:** May cause irritation

**Respiratory or skin sensitisation:** Dust may cause irritation

**Germ cell mutagenicity:** No

**Carcinogenicity:** No

**Reproductive toxicity:** No

**Specific target organ toxicity (single exposure):** No

**Specific target organ toxicity (repeated exposure):** No

**Aspiration hazard:** No

### 11.2 Information on other hazards

**Endocrine disrupting properties:** No

**Other information:** N/A

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Low to aquatic life

### 12.2 Persistence and degradability:

Inorganic substance

### 12.3 Bioaccumulative potential:

Not expected

### 12.4 Mobility in soil:

Soluble in water

### 12.5 Result of PBT and vPvB assessment:

Not applicable

### 12.6 Endocrine disrupting properties:

None

### 12.7 Other adverse effects

None

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Dispose as household waste where permitted in small quantities.

Big quantities dispose as laboratory chemical waste according to local regulations.

## SECTION 14. TRANSPORT INFORMATION

### 14.1 UN number or ID number

**Not regulated** as dangerous goods (ADR/RID/IMDG/IATA) for this kind of product.

## SECTION 15. REGULATORY INFORMATION

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

Classified according to Regulation (EC) No 1272/2008 (CLP)

SDS prepared according to REACH Annex II (Regulation (EU) 2020/878)

### **15.2 Chemical safety assessment**

When supplied as part of an educational chemistry set, appropriate warnings, age limits, and supervision instructions are required under Directive 2009/48/EC.

## SECTION 16. OTHER INFORMATION

### **Further information**

This SDS information is prepared according to Annex II of REACH.

The information is based on current knowledge and is intended to describe the product for health, safety and environmental purposes only.

# SAFETY DATA SHEET (SDS)

Version 1.0

Effective date: 15-01-2025

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Product name: SODIUM BICARBONATE  
Other names: Baking soda  
Brand: toySimply, Czech Republic  
CAS No.: Section 3.  
REACH: Exempt (food/pharma; non-hazardous)

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

Identified uses: Food supplement, beverage preparation

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

toySimply, s.r.o.  
Pomezí 300  
569 71 Pomezí  
Czech Republic  
  
+420 737 202 016  
[michal.broz@toysimply.cz](mailto:michal.broz@toysimply.cz)  
[www.toysimply.cz](http://www.toysimply.cz)

### 1.4 Emergency telephone number

Toxicological information centre Czech Republic: +420 224 91 92 93

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Not classified according to CLP regulation.

### 2.2 Label elements

None.

### 2.3 Other hazards

No components considered to be PBT or vPvB.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Component	Concentration	CAS No.	EC No.
Sodium Bicarbonate	<95%	144-55-8	205-633-8

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>Inhalation</b>	Fresh air. Rinse mouth/nose with water.
<b>Ingestion</b>	Not necessary.
<b>Skin contact</b>	Not necessary
<b>Eye contact</b>	Rinse with water for a few minutes.

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

<b>Inhalation</b>	Possible if tablets are crushed and dust is inhaled.
<b>Ingestion</b>	None
<b>Skin contact</b>	None
<b>Eye contact</b>	Possible irritation if dust gets into eyes or if concentrated powder contacts eyes. (Low concentration)
<b>Delayed effect / Immediate effect</b>	None.

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

No data available

### SECTION 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

##### Suitable extinguishing media

No limitations: Water, foam, dry powder, CO<sub>2</sub>

##### Unsuitable extinguishing media

None

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

Decomposition can produce CO/CO<sub>2</sub> and irritating fumes.

##### Hazardous combustion products

CO/CO<sub>2</sub>

#### 5.3 Advice for firefighters

Standard firefighter PPE; SCBA if smoke/fumes present.

#### 5.4 Further information

None

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Avoid powder (dust) formation; wear eye protection.

#### 6.2 Environmental precautions

Not dangerous to environment

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

Sweep/collect mechanically; wipe residues with water. Dispose per local rules.

#### 6.4 Reference to other sections

For disposal see section 13.

### SECTION 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid creating dust. Good hygiene (wash hands).

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

##### Storage conditions

Tightly closed. Dry.

##### Storage stability

None

##### Storage class

None

#### 7.3 Specific end use(s)

None

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### Ingredients with workplace control parameters

Not normally required for consumer handling; use ventilation for bulk handling/packing.

#### 8.2 Exposure controls

##### Personal protective equipment

###### Eye/face protection

Safety goggles.

###### Skin protection

Chemical-resistant gloves

###### Respiratory protection

Dust mask if airborne dust is generated

###### Hygiene

Wash hands after handling.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state:	Solid crystalline
Color:	White
Odor:	None
Melting point:	N/A
Boiling point:	N/A
Flammability:	N/A

Lower and upper explosion limit:	N/A
Flash point:	N/A
Autoignition temperature:	N/A
Decomposition temperature:	N/A
pH:	~7
Kinematic viscosity:	No data
Solubility:	Soluble in water
Partition coefficient n-octanol/water:	No data
Vapor pressure:	No data
Density and/or relative density:	N/A
Relative vapor density:	N/A
Particle characteristics:	N/A

## 9.2 Other information:

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:

Reacts with water, releasing carbon dioxide.

### 10.2 Chemical stability:

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions:

None.

### 10.4 Conditions to avoid:

Strong oxidizers

### 10.5 Incompatible materials:

None

## SECTION 11. TOXICOLOGICAL INFORMATION

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

**Acute toxicity:** None

**Skin corrosion/irritation:** None

**Serious eye damage/irritation:** May cause irritation

**Respiratory or skin sensitisation:** Dust may cause irritation

**Germ cell mutagenicity:** No

**Carcinogenicity:** No

**Reproductive toxicity:** No

**Specific target organ toxicity (single exposure):** No

**Specific target organ toxicity (repeated exposure):** No

**Aspiration hazard:** No

### 11.2 Information on other hazards

**Endocrine disrupting properties:** No

**Other information:** N/A

## SECTION 12. ECOLOGICAL INFORMATION

**12.1 Ecotoxicity**

None

**12.2 Persistence and degradability:**

None

**12.3 Bioaccumulative potential:**

None

**12.4 Mobility in soil:**

None

**12.5 Result of PBT and vPvB assessment:**

Not applicable

**12.6 Endocrine disrupting properties:**

None

**12.7 Other adverse effects**

None

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods:**

Dispose as household waste where permitted.

**SECTION 14. TRANSPORT INFORMATION****14.1 UN number or ID number**

**Not regulated** as dangerous goods (ADR/RID/IMDG/IATA) for this kind of product.

**SECTION 15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**CLP:** None.

**REACH:** Exempt for this use.

**15.2 Chemical safety assessment**

N/A

**SECTION 16. OTHER INFORMATION****Further information**

This SDS information is prepared according to Annex II of REACH.

The information is based on current knowledge and is intended to describe the product for health, safety and environmental purposes only.

# SAFETY DATA SHEET (SDS)

Version 1.0

Effective date: 15-01-2025

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Product name: CALCIUM LACTATE (<95%)  
Other names: Calcium 2-hydroxypropanoate  
Brand: toySimply, Czech Republic  
CAS No.: 814-80-2  
REACH: Exempt (food/pharma; non-hazardous)

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

Identified uses: Pharmaceutical, food additive, calcium additive, laboratory reagent  
None identified uses against

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

toySimply, s.r.o.  
Pomezí 300  
569 71 Pomezí  
Czech Republic  
  
+420 737 202 016  
[michal.broz@toysimply.cz](mailto:michal.broz@toysimply.cz)  
[www.toysimply.cz](http://www.toysimply.cz)

### 1.4 Emergency telephone number

Toxicological information centre Czech Republic: +420 224 91 92 93

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

### 2.2 Label elements



**Signal word**

**WARNING**

**H319**

Causes serious eye irritation

**P264**

Wash thoroughly after handling.

**P280**

Wear protective gloves/clothing/eye protection/face

protection

**P305+P351+P338**

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present.

**P337+P313**

If eye irritation persists, get medical attention.

### 2.3 Other hazards

No components considered to be PBT or vPvB.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Component	Concentration	CAS No.	EC No.
Calcium lactate	<95%	814-80-2	212-406-0

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>Inhalation</b>	Move to a fresh air. Consult a doctor.
<b>Ingestion</b>	Wash out mouth with water.
<b>Skin contact</b>	Wash immediately with soap and water.
<b>Eye contact</b>	Bathe the eye with running water for 15 minutes.

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

<b>Inhalation</b>	May be irritation of the throat.
<b>Ingestion</b>	May be irritation of the throat.
<b>Skin contact</b>	May be redness at the site of contact.
<b>Eye contact</b>	May be irritation.
<b>Delayed effect / Immediate effect</b>	Immediate effects expected after short-term exposure.

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

No data available

## SECTION 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

No limitations: Water, foam, dry powder, CO<sub>2</sub>

#### **Unsuitable extinguishing media**

None

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

Product is not flammable

#### **Hazardous combustion products**

Carbon oxides, calcium oxide

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus

### 5.4 Further information

Prevent fire extinguisher water from contaminating surface water of ground waters

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Avoid dust formation. No special protective equipment required.

**6.2 Environmental precautions**

No special measures required.

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

Sweep up mechanically. Avoid generating dust.

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

Tightly closed. Dry.

**Storage stability**

Recommended storage temperature 2-8 °C

**Storage class**

Storage class (TRGS 510): 11: Combustible Solids

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Ingredients with workplace control parameters**

N/A

**8.2 Exposure controls****Personal protective equipment****Eye/face protection**

Safety glasses

**Skin protection**

This recommendation applies only to the product stated in the safety data sheet.

Full contact

Material: Nitrile or latex rubber gloves

Splash contact

Material: Nitrile or latex rubber gloves

**Respiratory protection**

Required when dusts are generated.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state:	Solid
Color:	White
Odor:	Odorless
Melting point:	240°C
Boiling point:	240°C
Flammability:	Not flammable
Lower and upper explosion limit:	Not explosive
Flash point:	N/A
Autoignition temperature:	N/A
Decomposition temperature:	N/A
pH:	7.56 – 8.50
Kinematic viscosity:	No data
Solubility:	Soluble in water, slightly soluble in ethanol
Partition coefficient n-octanol/water:	No data
Vapor pressure:	No data
Density and/or relative density:	1.494 g/cm <sup>3</sup>
Relative vapor density:	N/A
Particle characteristics:	N/A

### 9.2 Other information:

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:

No dangerous reactions known

### 10.2 Chemical stability:

Stable under normal conditions

### 10.3 Possibility of hazardous reactions:

N/A

### 10.4 Conditions to avoid:

N/A

### 10.5 Incompatible materials:

Strong acids

## SECTION 11. TOXICOLOGICAL INFORMATION

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

**Acute toxicity:** No data

**Skin corrosion/irritation:** May cause irritation

**Serious eye damage/irritation:** May cause irritation

**Respiratory or skin sensitisation:** May cause irritation

**Germ cell mutagenicity:** No

**Carcinogenicity:** No

**Reproductive toxicity:** No

**Specific target organ toxicity (single exposure):** No

**Specific target organ toxicity (repeated exposure):** No

**Aspiration hazard:** No

### 11.2 Information on other hazards

**Endocrine disrupting properties:** No

**Other information:** N/A

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Not expected to be harmful

### 12.2 Persistence and degradability:

Readily biodegradable (organic component)

### 12.3 Bioaccumulative potential:

Not expected

### 12.4 Mobility in soil:

None

### 12.5 Result of PBT and vPvB assessment:

Not applicable

### 12.6 Endocrine disrupting properties:

None

### 12.7 Other adverse effects

None

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Dispose of in accordance with local and national regulations.

Product may be disposed of as non-hazardous chemical waste.

## SECTION 14. TRANSPORT INFORMATION

### ADR / RID / IMDG / IATA:

**Not regulated – not classified as dangerous goods.**

## SECTION 15. REGULATORY INFORMATION

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

**CLP:** Not classified

**REACH:** Substance exempt from registration

**15.2 Chemical safety assessment**

**Food additive:** E327 (EU approved)

**SECTION 16. OTHER INFORMATION**

**Further information**

This SDS information is prepared according to Annex II of REACH.

The information is based on current knowledge and is intended to describe the product for health, safety and environmental purposes only.

# SAFETY DATA SHEET (SDS)

Version 1.0

Effective date: 15-01-2025

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Product name: CITRIC ACID  
Other names: N/A  
Brand: toySimply, Czech Republic  
CAS No.: Section 3.  
REACH: Exempt (food/pharma; non-hazardous)

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

Identified uses: pH adjustment, chelating agent, laboratory reagent, educational/toy chemistry use

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

toySimply, s.r.o.  
Pomezí 300  
569 71 Pomezí  
Czech Republic  
  
+420 737 202 016  
[michal.broz@toysimply.cz](mailto:michal.broz@toysimply.cz)  
[www.toysimply.cz](http://www.toysimply.cz)

### 1.4 Emergency telephone number

Toxicological information centre Czech Republic: +420 224 91 92 93

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Eye Irrit. 2 — H319** Causes serious eye irritation.  
**STOT SE 3 — H335** (respiratory irritation) **for dust exposure.**

### 2.2 Label elements



**Pictogram:** GHS07  
**Signal word:** Warning

### Hazard statements:

H319 Causes serious eye irritation  
H335 May cause respiratory irritation (dust)

### Precautionary statements (recommended):

P261 Avoid breathing dust  
P264 Wash hands thoroughly after handling  
P280 Wear eye protection

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes...  
P337+P313 If eye irritation persists: Get medical advice

### 2.3 Other hazards

No components considered to be PBT or vPvB.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Component	Concentration	CAS No.	EC No.
Citric Acid	<95%	77-92-9	201-069-1

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>Inhalation</b>	Fresh air. Rinse mouth/nose with water.
<b>Ingestion</b>	Rinse mouth, drink water. Seek advice if large amount ingested and symptoms occur.
<b>Skin contact</b>	Not necessary
<b>Eye contact</b>	Rinse with water for a few minutes.

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

<b>Inhalation</b>	Possible if tablets are crushed and dust is inhaled.
<b>Ingestion</b>	Nausea.
<b>Skin contact</b>	None
<b>Eye contact</b>	Possible irritation if dust gets into eyes or if concentrated powder contacts eyes. (Low concentration)
<b>Delayed effect / Immediate effect</b>	Citrus flavour components can trigger sensitivities in some individuals.

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

No data available

## SECTION 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

No limitations: Water, foam, dry powder, CO<sub>2</sub>

#### Unsuitable extinguishing media

None

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

Organic substance may burn; decomposition can produce CO/CO<sub>2</sub> and irritating fumes.

**Hazardous combustion products**

CO/CO<sub>2</sub>, irritating fumes

**5.3 Advice for firefighters**

Standard firefighter PPE; SCBA if smoke/fumes present.

**5.4 Further information**

None

**SECTION 6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation; wear eye protection.

**6.2 Environmental precautions**

Not dangerous to environment

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

Sweep/collect mechanically; wipe residues with water. Dispose per local rules.

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid crushing tablets and creating dust. Good hygiene (wash hands).

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

Tightly closed. Dry.

**Storage stability**

None

**Storage class**

None

**7.3 Specific end use(s)**

None

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Ingredients with workplace control parameters**

Not normally required for consumer handling; use ventilation for bulk handling/packing.

**8.2 Exposure controls****Personal protective equipment**

**Eye/face protection**

Safety goggles.

**Skin protection**

Chemical-resistant gloves

**Respiratory protection**

Dust mask if airborne dust is generated

**Hygiene**

Wash hands after handling.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state:	Solid powder
Color:	White
Odor:	Acidic odor
Melting point:	153°C
Boiling point:	Decomposes
Flammability:	N/A
Lower and upper explosion limit:	N/A
Flash point:	N/A
Autoignition temperature:	N/A
Decomposition temperature:	N/A
pH:	<7; depending on concentration
Kinematic viscosity:	No data
Solubility:	Soluble in water and polar solvents; insoluble in non-polar
Partition coefficient n-octanol/water:	No data
Vapor pressure:	No data
Density and/or relative density:	1.665 g/cm <sup>3</sup>
Relative vapor density:	N/A
Particle characteristics:	N/A

**9.2 Other information:****SECTION 10. STABILITY AND REACTIVITY****10.1 Reactivity:**

Reacts with water, releasing carbon dioxide.

**10.2 Chemical stability:**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions:**

None.

**10.4 Conditions to avoid:**

Strong oxidizers

**10.5 Incompatible materials:**

None

**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008.**

**Acute toxicity:** None

**Skin corrosion/irritation:** None

**Serious eye damage/irritation:** May cause irritation

**Respiratory or skin sensitisation:** None

**Germ cell mutagenicity:** No

**Carcinogenicity:** No

**Reproductive toxicity:** No

**Specific target organ toxicity (single exposure):** No

**Specific target organ toxicity (repeated exposure):** No

**Aspiration hazard:** No

**11.2 Information on other hazards**

**Endocrine disrupting properties:** No

**Other information:** N/A

**SECTION 12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity**

Low hazard

**12.2 Persistence and degradability:**

Avoid large releases to drains

**12.3 Bioaccumulative potential:**

None

**12.4 Mobility in soil:**

Soluble in water

**12.5 Result of PBT and vPvB assessment:**

Not applicable

**12.6 Endocrine disrupting properties:**

None

**12.7 Other adverse effects**

None

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods:**

Dispose as household waste where permitted.

**SECTION 14. TRANSPORT INFORMATION**

**14.1 UN number or ID number**

**Not regulated** as dangerous goods (ADR/RID/IMDG/IATA) for this kind of product.

**SECTION 15. REGULATORY INFORMATION**

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

**CLP:** None.

**REACH:** Exempt for this use.

**15.2 Chemical safety assessment**

N/A

**SECTION 16. OTHER INFORMATION**

**Further information**

This SDS information is prepared according to Annex II of REACH.

The information is based on current knowledge and is intended to describe the product for health, safety and environmental purposes only.

# SAFETY DATA SHEET (SDS)

Version 1.0

Effective date: 15-01-2025

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Product name: COLOR PIGMENTS  
Other names: N/A  
Supplier: toySimply, Czech Republic  
CAS No.: Section 3.  
REACH: Exempt (toy/food/pharma; non-hazardous)

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

Identified uses: Toy coloring / educational chemistry sets, food-simulation purposes only

Uses against: Industrial food production, cosmetic or pharmaceutical use

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

toySimply, s.r.o.  
Pomezí 300  
569 71 Pomezí  
Czech Republic  
  
+420 737 202 016  
[michal.broz@toysimply.cz](mailto:michal.broz@toysimply.cz)  
[www.toysimply.cz](http://www.toysimply.cz)

### 1.4 Emergency telephone number

Toxicological information centre Czech Republic: +420 224 91 92 93

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Not classified according to CLP regulation.

### 2.2 Label elements

Pictograms: None  
Signal word: None  
Hazardous statements: None

Precautionary statements (recommended):  
P102: Keep out of reach of children  
P264: Wash hands thoroughly after handling  
P270: Do not eat, drink or smoke when using this product

### 2.3 Other hazards

No components considered to be PBT or vPvB.  
**Product may cause slight eye irritation on prolonged contact**

**When wet, spills are extremely slippery.**

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Component	Concentration	CAS No.	EC No.
Sorbitol	50%	50-70-4	200-061-5
Water	20%	7732-18-5	231-791-2
Glycerol	9.9%	56-81-5	200-289-5
Carboxymethyl Cellulose	20%	9004-32-4	618-378-6
Potassium Sorbate	0.1%	590-00-1	246-376-1

### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

<b>Inhalation</b>	None
<b>Ingestion</b>	Rinse mouth; drink water if discomfort occurs
<b>Skin contact</b>	Wash with water and soap.
<b>Eye contact</b>	Rinse cautiously with water for several minutes

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

<b>Inhalation</b>	None
<b>Ingestion</b>	Mild diarrhea (possibly)
<b>Skin contact</b>	Light redness
<b>Eye contact</b>	Possible irritation if dust gets into eyes.
<b>Delayed effect / Immediate effect</b>	None.

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

No data available

### SECTION 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media**

No limitations: Water, foam, CO<sub>2</sub>

**Unsuitable extinguishing media**

None

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

None, product is not flammable

**Hazardous combustion products**

CO/CO<sub>2</sub>

**5.3 Advice for firefighters**

Standard firefighter PPE; SCBA if smoke/fumes present.

**5.4 Further information**

None

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

Avoid slipping hazard, wear basic protective gloves if desired

**6.2 Environmental precautions**

Avoid large releases to drains

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

Absorb with inert material

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Handle in accordance with good hygiene practices

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

**Storage conditions**

Room temperature, dry conditions, tightly closed.

**Storage stability**

None

**Storage class**

None

**7.3 Specific end use(s)**

None

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Ingredients with workplace control parameters**

None.

**8.2 Exposure controls**

**Personal protective equipment**

**Eye/face protection**

None

**Skin protection**

Latex or nitril or vinyl gloves

**Respiratory protection**

None

**Hygiene**

Wash hands after handling.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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

Physical state:	Liquid/viscous
Color:	Yellow and blue
Odor:	None
Melting point:	N/A
Boiling point:	~100°C
Flammability:	N/A
Lower and upper explosion limit:	N/A
Flash point:	N/A
Autoignition temperature:	N/A
Decomposition temperature:	N/A
pH:	~7
Kinematic viscosity:	No data
Solubility:	Soluble in water
Partition coefficient n-octanol/water:	No data
Vapor pressure:	No data
Density and/or relative density:	1.1 – 1.3 g/cm <sup>3</sup>
Relative vapor density:	N/A
Particle characteristics:	N/A

**9.2 Other information:**

**SECTION 10. STABILITY AND REACTIVITY**

**10.1 Reactivity:**

None

**10.2 Chemical stability:**

Stable

**10.3 Possibility of hazardous reactions:**

None.

**10.4 Conditions to avoid:**

None

**10.5 Incompatible materials:**

Strong oxidizers (general precaution).

**SECTION 11. TOXICOLOGICAL INFORMATION**

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

**Acute toxicity:** None

**Skin corrosion/irritation:** None

**Serious eye damage/irritation:** Mild

**Respiratory or skin sensitisation:** None

**Germ cell mutagenicity:** No

**Carcinogenicity:** No

**Reproductive toxicity:** No

**Specific target organ toxicity (single exposure):** No

**Specific target organ toxicity (repeated exposure):** No

**Aspiration hazard:** No

### 11.2 Information on other hazards

**Endocrine disrupting properties:** No

**Other information:** N/A

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Low

### 12.2 Persistence and degradability:

Biodegradable

### 12.3 Bioaccumulative potential:

None

### 12.4 Mobility in soil:

Water soluble

### 12.5 Result of PBT and vPvB assessment:

Not applicable

### 12.6 Endocrine disrupting properties:

None

### 12.7 Other adverse effects

None

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Dispose as household waste where permitted.

Dispose of according to local regulations.

## SECTION 14. TRANSPORT INFORMATION

### 14.1 UN number or ID number

**Not regulated** as dangerous goods (ADR/RID/IMDG/IATA) for this kind of product.

## SECTION 15. REGULATORY INFORMATION

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

**CLP:** None.

**REACH:** Exempt for this use.

**15.2 Chemical safety assessment**

N/A

**SECTION 16. OTHER INFORMATION**

**Further information**

This SDS information is prepared according to Annex II of REACH.

The information is based on current knowledge and is intended to describe the product for health, safety and environmental purposes only.

# SAFETY DATA SHEET (SDS)

Version 1.0

Effective date: 15-01-2025

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Product name: COPPER SULFATE PENTAHYDRATE  
Other names: Copper sulphate pentahydrate, Cupric sulfate pentahydrate, Blue vitriol  
Brand: toySimply, Czech Republic  
CAS No.: 7758-99-8  
REACH: Exempt (food/pharma; non-hazardous)

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

Identified uses: Laboratory reagent; industrial chemical; (where permitted) agriculture / biocide formulations; plating, etc.

Uses against: Any use leading to uncontrolled release to the environment (aquatic toxicity).

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

toySimply, s.r.o.  
Pomezí 300  
569 71 Pomezí  
Czech Republic

+420 737 202 016  
[michal.broz@toysimply.cz](mailto:michal.broz@toysimply.cz)  
[www.toysimply.cz](http://www.toysimply.cz)

### 1.4 Emergency telephone number

Toxicological information centre Czech Republic: +420 224 91 92 93

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Harmonised EU classification includes:

**Acute Tox. 4 (oral) – H302**

**Skin Irrit. 2 – H315**

**Eye Dam. 1 – H318**

**Aquatic Acute 1 – H400**

**Aquatic Chronic 1 – H410**

### 2.2 Label elements



**Pictograms: GHS05, GHS07, GHS09**  
**Signal word: Danger**

**Hazard statements:**

- **H302** Harmful if swallowed.
- **H315** Causes skin irritation.
- **H318** Causes serious eye damage.
- **H400** Very toxic to aquatic life.
- **H410** Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

- **P264** Wash hands thoroughly after handling.
- **P270** Do not eat, drink or smoke when using this product.
- **P273** Avoid release to the environment.
- **P280** Wear protective gloves/eye protection/face protection.
- **P301+P312** IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- **P330** Rinse mouth.
- **P302+P352** IF ON SKIN: Wash with plenty of water.
- **P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes...
- **P310** Immediately call a POISON CENTER/doctor.
- **P391** Collect spillage.
- **P501** Dispose of contents/container in accordance with regulations.

**2.3 Other hazards**

No components considered to be PBT or vPvB.

Dust may irritate respiratory tract; highly toxic to aquatic organisms even at low concentrations.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

<b>Component</b>	<b>Concentration</b>	<b>CAS No.</b>	<b>EC No.</b>
Copper sulfate pentahydrate	<95%	7758-99-8	231-847-6

**SECTION 4. FIRST AID MEASURES**

#### 4.1 Description of first aid measures

<b>Inhalation</b>	Fresh air. Rinse mouth/nose with water. Seek medical advice if symptoms persist.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting unless instructed by medical personnel. Contact Poison Centre/doctor if unwell.
<b>Skin contact</b>	Wash with plenty of water and soap. Remove contaminated clothing.
<b>Eye contact</b>	Rinse immediately with water for several minutes; remove lenses if easy; get urgent medical attention (risk of serious eye damage).

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

<b>Inhalation</b>	Irritation of throat and lungs. Corrosive.
<b>Ingestion</b>	Nausea, headache, abdominal pain, vomiting.
<b>Skin contact</b>	Redness, dry skin, burn.
<b>Eye contact</b>	Severe irritation. Corrosive.
<b>Delayed effect / Immediate effect</b>	Immediate effects expected after short-term exposure.

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

No data available

### SECTION 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media**

No limitations: Water, foam, dry powder, CO<sub>2</sub>

**Unsuitable extinguishing media**

None

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

Not flammable, but heating may generate irritating/toxic fumes (e.g., sulfur oxides).

**Hazardous combustion products**

CO/CO<sub>2</sub>, sulfur oxides

#### 5.3 Advice for firefighters

Standard firefighter PPE; SCBA if smoke/fumes present.

#### 5.4 Further information

Prevent fire extinguisher water from contaminating surface water of ground waters

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Avoid dust formation; wear gloves and eye protection.

**6.2 Environmental precautions**

Prevent entry to drains/watercourses (aquatic acute/chronic toxicity)

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

Collect mechanically (scoop/sweep), avoid dust; place in labelled container for disposal.  
Wash residue carefully, collect wash water if needed.

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid dust; no eating/drinking/smoking during use.  
Use local exhaust where dust may form.

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

Tightly closed. Dry. Well-ventilated.

**Storage stability**

Keep away from incompatible materials (strong bases, reducing agents; follow supplier specifics).

**Storage class**

Storage class (TRGS 510): 11: Combustible Solids

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Ingredients with workplace control parameters**

Local exhaust ventilation for dusty work.

**8.2 Exposure controls****Personal protective equipment****Eye/face protection**

Safety goggles + face shield recommended (Eye Dam. 1).

**Skin protection**

Chemical-resistant gloves

**Respiratory protection**

Dust mask (e.g., P2/P3) if airborne dust is generated

**Hygiene**

Wash hands after handling.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state:	Solid crystalline
Color:	White-blue to blue
Odor:	Odorless
Melting point:	590°C
Boiling point:	650°C
Flammability:	Not flammable
Lower and upper explosion limit:	Not explosive
Flash point:	N/A
Autoignition temperature:	N/A
Decomposition temperature:	200°C or 650°C (depending on presence of oxygen)
pH:	4 - 5
Kinematic viscosity:	No data
Solubility:	Soluble in water, methanol or ammonia; insoluble in ethanol
Partition coefficient n-octanol/water:	No data
Vapor pressure:	No data
Density and/or relative density:	2.28 g/cm <sup>3</sup>
Relative vapor density:	N/A
Particle characteristics:	N/A

### 9.2 Other information:

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:

Avoid strong reducing agents; may react with strong bases.

### 10.2 Chemical stability:

Stable under normal conditions

### 10.3 Possibility of hazardous reactions:

Sulfur oxides on strong heating.

### 10.4 Conditions to avoid:

N/A

### 10.5 Incompatible materials:

Strong bases

## SECTION 11. TOXICOLOGICAL INFORMATION

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

**Acute toxicity:** None

**Skin corrosion/irritation:** May cause irritation

**Serious eye damage/irritation:** May cause serious damage

**Respiratory or skin sensitisation:** May cause irritation

**Germ cell mutagenicity:** No  
**Carcinogenicity:** No  
**Reproductive toxicity:** No  
**Specific target organ toxicity (single exposure):** No  
**Specific target organ toxicity (repeated exposure):** No  
**Aspiration hazard:** No

**11.2 Information on other hazards**  
**Endocrine disrupting properties:** No  
**Other information:** N/A

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

with long lasting effects (Aquatic Acute/Chronic 1). LC50 (fish, 96h)  $\approx$  0.1 mg/L; EC50 (water flea, 48h)  $\approx$  0.024 mg/L

### 12.2 Persistence and degradability:

Not readily biodegradable; copper persists in the environment.

### 12.3 Bioaccumulative potential:

Copper accumulates in plants and animals, but biomagnification in food chains hasn't been shown.

### 12.4 Mobility in soil:

Highly water-soluble, so it can move easily in soil and contaminate groundwater.

### 12.5 Result of PBT and vPvB assessment:

Not applicable

### 12.6 Endocrine disrupting properties:

None

### 12.7 Other adverse effects

None

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Dispose as hazardous waste according to local rules.  
Do not discharge into drains. Contaminated packaging may require hazardous disposal depending on residues

## SECTION 14. TRANSPORT INFORMATION

### Typically shipped as:

**UN Number:** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Copper(II) sulfate pentahydrate)

**Class:** 9

**Packing Group:** III

**Marine pollutant:** yes (IMDG)

## SECTION 15. REGULATORY INFORMATION

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

**CLP:** Harmonised EU classification applies (Annex VI / ATP updates shown via ECHA).

**REACH:** Exempt for this use.

**15.2 Chemical safety assessment**

N/A

**SECTION 16. OTHER INFORMATION**

**Further information**

This SDS information is prepared according to Annex II of REACH.

The information is based on current knowledge and is intended to describe the product for health, safety and environmental purposes only.

# SAFETY DATA SHEET (SDS)

Version 1.0

Effective date: 15-01-2025

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Product name: SODIUM ALGINATE  
Other names: Alginic acid, sodium salt; Sodium poly(alginic acid) salt  
Brand: toySimply, Czech Republic  
CAS No.: 9005-38-3  
REACH: Exempt (food/pharma; non-hazardous)

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

Identified uses: Pharmaceutical, food additive, sodium additive, laboratory binder  
None identified uses against

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

toySimply, s.r.o.  
Pomezí 300  
569 71 Pomezí  
Czech Republic  
  
+420 737 202 016  
[michal.broz@toysimply.cz](mailto:michal.broz@toysimply.cz)  
[www.toysimply.cz](http://www.toysimply.cz)

### 1.4 Emergency telephone number

Toxicological information centre Czech Republic: +420 224 91 92 93

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

### 2.2 Label elements

**Hazard pictograms:** None

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:** None required under CLP

### 2.3 Other hazards

No components considered to be PBT or vPvB.  
Dust may cause mechanical irritation (eyes, throat, respiratory tract)  
Forms slippery gel when wet → slip hazard on floors

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>3.1 Substances</b>			
<b>Component</b>	<b>Concentration</b>	<b>CAS No.</b>	<b>EC No.</b>
Sodium alginate	<95%	9005-38-3	618-415-6
<b>SECTION 4. FIRST AID MEASURES</b>			
<b>4.1 Description of first aid measures</b>			
<b>Inhalation</b>	Move to fresh air. Rinse mouth/nose with water.		
<b>Ingestion</b>	Rinse mouth and drink water. Large amounts may cause gastrointestinal discomfort.		
<b>Skin contact</b>	Wash with soap and water. Remove contaminated clothing.		
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy.		
<b>4.2 Most important symptoms and effects, both acute and delayed</b>			
<b>Inhalation</b>	Irritation of throat. Seek medical advice if symptoms persist.		
<b>Ingestion</b>	Irritation of throat and stomach.		
<b>Skin contact</b>	May cause redness.		
<b>Eye contact</b>	May cause redness or dry eye. Seek medical advice if irritation persists.		
<b>Delayed effect / Immediate effect</b>	Immediate effects expected after short-term exposure.		
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>			
No data available			
<b>SECTION 5. FIREFIGHTING MEASURES</b>			
<b>5.1 Extinguishing media</b>			
<b>Suitable extinguishing media</b>			
No limitations: Water, foam, dry powder, CO <sub>2</sub>			
<b>Unsuitable extinguishing media</b>			
None			
<b>5.2 Special hazards arising from the substance or mixture</b>			
Not flammable as supplied, but organic dust can form combustible dust clouds under extreme conditions.			
Thermal decomposition may produce carbon oxides and sodium oxides.			
<b>Hazardous combustion products</b>			
CO/CO <sub>2</sub> , sodium oxides (on burning)			
<b>5.3 Advice for firefighters</b>			

Standard firefighting gear; self-contained breathing apparatus if heavy smoke.

#### **5.4 Further information**

Prevent fire extinguisher water from contaminating surface water of ground waters

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Avoid dust formation. Avoid slippery conditions if wet.

#### **6.2 Environmental precautions**

No special measures required.

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

Sweep or vacuum (preferably with HEPA filtration). Avoid dispersing dust.  
If wet, collect mechanically; wash area to remove slip hazard.

#### **6.4 Reference to other sections**

For disposal see section 13.

### SECTION 7. HANDLING AND STORAGE

#### **7.1 Precautions for safe handling**

For precautions see section 2.2.

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

##### **Storage conditions**

Tightly closed. Dry. Well-ventilated.

##### **Storage stability**

Refrigerate (around 4°C) in airtight containers to prevent mold and viscosity loss.

##### **Storage class**

Storage class (TRGS 510): 11: Combustible Solids

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

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **8.1 Control parameters**

##### **Ingredients with workplace control parameters**

No specific EU OEL established for sodium alginate. Use general dust limits as guidance where applicable.

#### **8.2 Exposure controls**

##### **Personal protective equipment**

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

Safety glasses recommended when dust is present

###### **Skin protection**

Not required; gloves optional for prolonged handling

**Respiratory protection**

Not required under normal use; use dust mask (P2) if airborne dust is generated.

**Hygiene**

Wash hands after handling.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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

Physical state:	Solid powder
Color:	White or pale yellow
Odor:	Odorless
Melting point:	300°C
Boiling point:	495°C
Flammability:	Not flammable
Lower and upper explosion limit:	Not explosive
Flash point:	N/A
Autoignition temperature:	N/A
Decomposition temperature:	N/A
pH:	6 - 8
Kinematic viscosity:	No data
Solubility:	Soluble in water, insoluble or slightly soluble in organic solvents
Partition coefficient n-octanol/water:	No data
Vapor pressure:	No data
Density and/or relative density:	1.0 g/cm <sup>3</sup>
Relative vapor density:	N/A
Particle characteristics:	N/A

**9.2 Other information:**

**SECTION 10. STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No dangerous reactions known

**10.2 Chemical stability:**

Stable under normal conditions

**10.3 Possibility of hazardous reactions:**

N/A

**10.4 Conditions to avoid:**

N/A

**10.5 Incompatible materials:**

Strong oxidizers; strong acids may cause precipitation of alginic acid

**SECTION 11. TOXICOLOGICAL INFORMATION**

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

**Acute toxicity:** No data

**Skin corrosion/irritation:** May cause irritation

**Serious eye damage/irritation:** May cause irritation

**Respiratory or skin sensitisation:** May cause irritation

**Germ cell mutagenicity:** No

**Carcinogenicity:** No

**Reproductive toxicity:** No

**Specific target organ toxicity (single exposure):** No

**Specific target organ toxicity (repeated exposure):** No

**Aspiration hazard:** No

### 11.2 Information on other hazards

**Endocrine disrupting properties:** No

**Other information:** N/A

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Not expected to be harmful

### 12.2 Persistence and degradability:

Readily biodegradable (polysaccharide)

### 12.3 Bioaccumulative potential:

Not expected

### 12.4 Mobility in soil:

None

### 12.5 Result of PBT and vPvB assessment:

Not applicable

### 12.6 Endocrine disrupting properties:

None

### 12.7 Other adverse effects

None

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Dispose of in accordance with local regulations.

Generally suitable for non-hazardous waste.

Avoid releasing large quantities into drains (may thicken/gel and block systems).

## SECTION 14. TRANSPORT INFORMATION

### ADR / RID / IMDG / IATA:

**Not regulated – not classified as dangerous goods.**

## SECTION 15. REGULATORY INFORMATION

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

**CLP:** Not classified

**REACH:** Polymer / typically exempt (supplier confirmation recommended)

**15.2 Chemical safety assessment**

**Food additive:** E401 (EU approved)

**SECTION 16. OTHER INFORMATION**

**Further information**

This SDS information is prepared according to Annex II of REACH.

The information is based on current knowledge and is intended to describe the product for health, safety and environmental purposes only.

# SAFETY DATA SHEET (SDS)

Version 1.0

Effective date: 15-01-2025

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Product name: WATER ABSORBING POLYMER  
Other names: N/A  
Supplier: toySimply, Czech Republic  
CAS No.: Section 3.  
REACH: Exempt (food/pharma; non-hazardous)

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

Identified uses: Superabsorbent polymer (SAP) for moisture absorption / educational/toy set use (as applicable).

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

toySimply, s.r.o.  
Pomezí 300  
569 71 Pomezí  
Czech Republic  
  
+420 737 202 016  
[michal.broz@toysimply.cz](mailto:michal.broz@toysimply.cz)  
[www.toysimply.cz](http://www.toysimply.cz)

### 1.4 Emergency telephone number

Toxicological information centre Czech Republic: +420 224 91 92 93

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Not classified according to CLP regulation.

### 2.2 Label elements

None.

### 2.3 Other hazards

No components considered to be PBT or vPvB.

**Dust may irritate eyes/respiratory tract.**

**When wet, spills are extremely slippery.**

Fine organic dust can form **dust-air mixtures** under certain conditions; avoid dust clouds.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Component	Concentration	CAS No.	EC No.
Sodium Polyacrylate	>89%	9003-04-7	618-349-8
Silicon Dioxide	<1%	7631-86-9	700-981-1
Water	10%	7732-18-5	231-791-2

**SECTION 4. FIRST AID MEASURES****4.1 Description of first aid measures**

<b>Inhalation</b>	Move to fresh air. If symptoms persist, seek medical advice.
<b>Ingestion</b>	Rinse mouth, drink water. Do not induce vomiting. Seek medical advice if unwell.
<b>Skin contact</b>	Wash with water and soap.
<b>Eye contact</b>	Rinse cautiously with water for several minutes; remove contact lenses if present and easy; continue rinsing. If irritation persists, get medical advice.

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

<b>Inhalation</b>	Irritation if dust is inhaled.
<b>Ingestion</b>	None
<b>Skin contact</b>	None
<b>Eye contact</b>	Possible irritation if dust gets into eyes.
<b>Delayed effect / Immediate effect</b>	None.

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

No data available

**SECTION 5. FIREFIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

No limitations: Water, foam, dry powder, CO<sub>2</sub>

**Unsuitable extinguishing media**

None

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

Dust may form combustible/explosive dust-air mixture in extreme dustiness conditions; avoid raising dust.

**Hazardous combustion products**

CO/CO<sub>2</sub>

### 5.3 Advice for firefighters

Standard firefighter PPE; SCBA if smoke/fumes present.

### 5.4 Further information

None

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Avoid powder (dust) formation; wear eye protection.

### 6.2 Environmental precautions

Prevent large releases to drains (swells/blocks).

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

If dry weep/collect mechanically, dispose per local rules. When wet, collect mechanically; beware extreme slipperiness.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid creating dust. Keep away from eyes.

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

#### Storage conditions

Tightly closed. Dry. Protect from moisture

#### Storage stability

None

#### Storage class

None

### 7.3 Specific end use(s)

None

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Ingredients with workplace control parameters

Industry guidance for SAP respirable dust: **0.05 mg/m<sup>3</sup> (respirable fraction <10 µm)** recommended by EDANA

### 8.2 Exposure controls

#### Personal protective equipment

##### Eye/face protection

Safety goggles.

**Skin protection**

Chemical-resistant gloves

**Respiratory protection**

Dust mask if airborne dust is generated

**Hygiene**

Wash hands after handling.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state:	Solid powder
Color:	White
Odor:	Slight
Melting point:	N/A
Boiling point:	N/A
Flammability:	N/A
Lower and upper explosion limit:	N/A; dust explosion possible under uncommon dusty conditions
Flash point:	N/A
Autoignition temperature:	N/A
Decomposition temperature:	N/A
pH:	N/A
Kinematic viscosity:	No data
Solubility:	Swells in water
Partition coefficient n-octanol/water:	No data
Vapor pressure:	No data
Density and/or relative density:	N/A
Relative vapor density:	N/A
Particle characteristics:	N/A

**9.2 Other information:****SECTION 10. STABILITY AND REACTIVITY****10.1 Reactivity:**

Swells strongly with water.

**10.2 Chemical stability:**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions:**

None.

**10.4 Conditions to avoid:**

moisture, dust clouds, ignition sources in dusty environments.

**10.5 Incompatible materials:**

strong oxidizers (general precaution).

## SECTION 11. TOXICOLOGICAL INFORMATION

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

**Acute toxicity:** None

**Skin corrosion/irritation:** None

**Serious eye damage/irritation:** May cause irritation from dust

**Respiratory or skin sensitisation:** Dust may cause irritation

**Germ cell mutagenicity:** No

**Carcinogenicity:** No

**Reproductive toxicity:** No

**Specific target organ toxicity (single exposure):** No

**Specific target organ toxicity (repeated exposure):** No

**Aspiration hazard:** No

### 11.2 Information on other hazards

**Endocrine disrupting properties:** No

**Other information:** N/A

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

None

### 12.2 Persistence and degradability:

Avoid releasing to drains, material is persistent

### 12.3 Bioaccumulative potential:

None

### 12.4 Mobility in soil:

None

### 12.5 Result of PBT and vPvB assessment:

Not applicable

### 12.6 Endocrine disrupting properties:

None

### 12.7 Other adverse effects

None

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Dispose as household waste where permitted.

Do not wash into drain.

## SECTION 14. TRANSPORT INFORMATION

### 14.1 UN number or ID number

**Not regulated** as dangerous goods (ADR/RID/IMDG/IATA) for this kind of product.

## SECTION 15. REGULATORY INFORMATION

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

**CLP:** None.

**REACH:** Exempt for this use.

### 15.2 Chemical safety assessment

N/A

## SECTION 16. OTHER INFORMATION

### Further information

This SDS information is prepared according to Annex II of REACH.

The information is based on current knowledge and is intended to describe the product for health, safety and environmental purposes only.