

Safety Data Sheet

#15543584 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Alginate acid	9005-32-7	[C ₆ H ₈ O ₆] _n	10	06 Oct 2026

SECTION 1

Identification

1.1 Product identifier

Product name Alginate acid

CAS number 9005-32-7

EC / EINECS number 232-680-1

Chemical formula [C₆H₈O₆]_n

Molecular weight 176.10

SMILES C[N+](C)(C)C1=COC=C1.[I-]

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

Research and development. Laboratory Chemicals. Manufacture of substances.
Not suitable for human consumption or veterinary purposes.

1.3 Details of the supplier of the safety data sheet

Molekula Limited
1 Millennium Way, Newton Aycliffe
Durham, DL5 6JW, United Kingdom
info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008.

2.2 Label elements

NONE

CODE	PRECAUTIONARY STATEMENT
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P280	Wear protective gloves/protective clothing/eye protection/face protection
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2.3 Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria. This product does not contain any known or suspected Endocrine disruptors.

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	Alginic acid
CAS number	9005-32-7
EC number	232-680-1
Concentration / purity	~100.0%
Classification according to Regulation (EC) No 1272/2008	This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008.
Hazard statements	None
Acute toxicity estimate (ATE)	None reported
Impurities / stabilising additives	<i>Not applicable</i>

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Move to fresh air if inhaled. Get medical attention if any discomfort continues.
Skin contact	Rinse skin with water. If skin irritation or rash occurs: get medical advice/attention.
Eye contact	Remove contact lenses if present. Rinse eyes with water. If eye irritation persists: get medical advice/attention.
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

May cause temporary irritation if inhaled, discomfort if swallowed, dryness of the skin on prolonged contact, and slight eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically; no special treatment required.

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Alcohol-resistant foam, carbon dioxide, dry powder or water fog; use media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3 Advice for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing; evacuate area and cool exposed containers with water spray.

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. For personal protection, see section 8.

6.2 Environmental precautions

Avoid discharge into drains or watercourses 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 specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature Ambient

Conditions for safe storage (incompatibilities) Moisture sensitive; store under inert gas away from incompatible materials (strong oxidising agents).

7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL) None reported

DNEC/PNEC data DNEL/DMEL: Not reported
PNEC: Not reported

8.2 Exposure controls

Eye / face protection Safety glasses
Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.

Skin / hand protection Gloves: Nitrile Rubber, 0.11mm (480 mins).

Respiratory protection Dust mask (FFP2/FFP3)
Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

Other protection Wash after use and before eating, smoking and using the toilet; do not eat, drink or smoke when using this product.

Environmental exposure controls Not regarded as dangerous for the environment.

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state Solid
DERIVED FROM: LITERATURE

Colour Off-white
DERIVED FROM: LITERATURE

Odour Odourless
DERIVED FROM: LITERATURE

Melting / freezing point 300°C
DERIVED FROM: LITERATURE

Boiling point No data available

Flammability	<i>Not applicable</i>
Lower and upper explosion limit	<i>No data available</i>
Flash point	<i>Not applicable</i>
Auto-ignition temperature	<i>No data available</i>
Decomposition temperature	<i>No data available</i>
pH	<i>No data available</i>
Acidity	Acid DERIVED FROM: LITERATURE
Kinematic viscosity	<i>No data available</i>
Solubility	Slightly soluble in water. DERIVED FROM: LITERATURE
Partition coefficient n-octanol/water (log value)	<i>No data available</i>
Vapour pressure	<i>No data available</i>
Density (g/mL)	<i>Not applicable</i>
Relative vapour density	<i>No data available</i>
Particle characteristics	<i>No data available</i>

9.2 Other information

No data available

SECTION 10

Stability & reactivity

10.1 Reactivity

See the other subsections of this section for further details.

10.2 Chemical stability

Stable at normal ambient temperatures and under the prescribed storage conditions.

10.3 Possibility of hazardous reactions

No potentially hazardous reactions known.

10.4 Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5 Incompatible materials

Strong oxidising agents.

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

Acute toxicity (LD50 / LC50)	LD50 Oral - Rat - > 5,000 mg/kg
Skin corrosion / irritation	Based on available data the classification criteria are not met; prolonged contact may cause dryness of the skin.
Eye corrosion / irritation	Based on available data the classification criteria are not met; may be slightly irritating to eyes.
Respiratory / skin sensitisation	Based on available data the classification criteria are not met (respiratory and skin).
Carcinogenicity	Based on available data the classification criteria are not met; no ingredients listed by IARC.
Mutagenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	Based on available data the classification criteria are not met.
STOT (single / repeated exposure)	Based on available data the classification criteria are not met (single and repeated exposure); no specific target organs known.
Aspiration hazard	Not relevant. Solid.

11.2 Information on other hazards

Not considered an endocrine disruptor

SECTION 12

Ecological information

12.1 Toxicity

Not regarded as dangerous for the environment; acute and chronic aquatic toxicity classification criteria are not met.

12.2 Persistence and degradability

The degradability of the product is not known.

12.3 Bioaccumulative potential

No data available on bioaccumulation.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with local/national regulations

SECTION 14

Transport information

14.1 UN number or ID 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

Special precautions for user *Not applicable*

Transport category *Not applicable*

Tunnel code *Not applicable*

Packing instruction (ADR) *Not applicable*

Packing instruction (IMDG) *Not applicable*

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

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

Substance-specific regulations (e.g. licences) Health and Safety at Work etc. Act 1974; CDG 2009 (SI 2009 No. 1348); EH40/2005 Workplace exposure limits.

REACH code Y113

ECHA notification *Not applicable*

15.2 Chemical safety assessment

No

SECTION 16

Other information

Revision notes / other information

This version (v10) of the SDS was created on 06.10.2026 and replaces version 1 (22.06.2022) with no significant changes.

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.