

Safety information sheet

Version: 1.0 EN

Sodium ascorbate, E 301

Article number: D10382

This document has been prepared as a communication tool to inform downstream users about both the status of the substance under REACH and CLP, some of its essential properties and the guidance on safe use. An extended safety data sheet (SDS) is not required for this substance under Article 31 of REACH Regulation (EC) No 1272/2008, including the amending Regulation (EU) 2020/878. As a result, the format and content of this document does not comply with the framework for safety data sheets set out in Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006.

1 Identification of the substance/mixture and the company

1.1 Product identifier

Name	Sodium ascorbate, E 301
CAS number	134-03-2
EC number	206-126-1
REACH registration	01-211998570-0-33-xxxx

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

Description/use	Sodium ascorbate serves as an antioxidant to extend shelf life. For further information on specific applications, please contact us at the telephone number provided – we will be happy to put you in touch with the relevant specialist department.
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1.3 Details of the supplier providing the safety information sheet

Company	DistrEbution GmbH
Address	Brookdeich 40 21029 Hamburg Germany
Telephone	+49 40 609 2387 60
E-Mail	info@distrebution.com

1.4 Emergency number

+49 40 609 2387 60 (Business hours: Mon - Thu: 8 a.m.- 5 p.m. / Fri: 8 a.m. – 4 p.m.)

2 Potential hazards

2.1 Classification of the substance or mixture

Not classified according to Chemicals Regulation (EC) No.1272/2008.

2.2 Label elements

Not subject to classification according to Regulation (EC) No 1272/2008.

2.3 Other hazards

Slightly harmful to health in case of skin or eye contact (irritant), as well as if swallowed or inhaled.

3 Composition/information on ingredients

Chemical	Sodium ascorbate, E 301
characterization:	
CAS number	134-03-2
EC number	205-126-1
REACH registration	01-211998570-0-33-xxxx
Hazardous ingredients	-
Nanoparticles	No nanoparticles according to Regulation (EU) 2018/1881

4 First-aid measures

4.1 Description of first-aid measures

After eye contact

Rinse immediately with tap water for at least 10 minutes, keeping the eyelids open.

After skin contact

Remove contaminated clothing, wash skin with soap and water, do not use solvents.

Inhalation or ingestion

Move the affected person to fresh air and keep them calm; seek medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Medical attention is required if irritation or other symptoms occur.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing agents

Suitable extinguishing agents

Water jet, powder, foam, carbon dioxide (CO₂)

Unsuitable extinguishing agents

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5.2 Special hazards arising from the substance or mixture

Significant risk of dust explosion.

5.3 Advice to firefighters

Protective equipment for firefighters

Use water spray to suppress gases/vapours/mists.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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6.2 Environmental precautions

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6.3 Methods and material for containment and cleaning up

Pick up solid substances (avoid dust formation) and dispose of them; then rinse with plenty of water.

6.4 Reference to other sections

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7 Handling and storage

7.1 Precautions for safe handling

Processing in closed systems, if possible under inert gas (e.g. nitrogen). Local exhaust ventilation required; take measures against electrostatic charging; avoid dust formation (high risk of dust explosion).

Suitable materials: stainless steel, coated steel (protective coating), glass, polyethylene, polypropylene, enamel and acid- and alkali-resistant materials.

Unsuitable: aluminium, copper, zinc, iron.

7.2 Conditions for safe storage, including any incompatibilities

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Store in non-metallic, tightly sealed containers. Store in a cool, dry place away from light. Suitable packaging materials: tightly sealed; coated steel (protective coating), glass, polyethylene, polypropylene, PVC.

7.3 Specific end uses

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8 Exposure controls/personal protective equipment

8.1 Parameters to be monitored

Air limit value: IOEL – 10 mg/m³ (8-hour TWA).

Analysis: Sampling on glass fibre filter and gravimetric or chemical determination.

8.2 Limitation and monitoring of exposure

8.2.1 Appropriate engineering controls

Use enclosures, local exhaust ventilation or other technical measures to keep the air concentration below the limit values.

8.2.2 Personal protective equipment

Respiratory protection

In case of high dust concentration, use a particle mask or breathing apparatus with independent air supply.

Hand protection

Protective gloves (e.g. natural rubber).

Eye protection

Safety goggles.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Solid crystals or powder
Colour	White to yellowish
Odour	Slightly pleasant odour
pH	7.0 – 8.0 (in water)
Solubility	Easily soluble in water, slightly soluble in ethanol (96%), practically insoluble in methylene chloride

10 Stability and reactivity

10.1 Reactivity

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Not reactive under normal processing conditions.

10.2 Chemical stability

Stable at room temperature when protected from moisture.

10.3 Possibility of hazardous reactions

Not expected under normal processing conditions.

10.4 Conditions to avoid

Moisture, heating.

10.5 Incompatible materials

Oxidizing agents, atmospheric oxygen, bases, metals, metal salts.

10.6 Hazardous decomposition products

Prolonged storage may cause yellowing due to slow degradation; in aqueous solution, the substance is prone to oxidative degradation, especially in the presence of alkalis or heavy metal ions.

11 Toxicological information

11.1 Information on hazard classes according to Regulation (EC) No. 1272/2008

Acute oral toxicity	LD 50 (rat, oral): 11,900 mg/kg LD50 (mouse, oral): 8,000 mg/kg LD50 (mouse, i.v.): 518 mg/kg
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Local effects	Eye: May cause irritation Mucous membranes: May cause irritation Skin: May cause irritation, especially in combination with moisture (sweat)
Chronic toxicity	In predisposed individuals, 4-12 g/day may cause urinary stones.
Germ cell mutagenicity	No suspicion of mutagenic effects in humans
Carcinogenicity	Not carcinogenic (several animal species)
Reproductive toxicity	Not teratogenic, not embryotoxic
Specific target organ toxicity after single exposure	No data available
Specific target organ toxicity after repeated exposure	No data available
Aspiration hazard	No data available

11.2 Information on other hazards

No serious toxic effects are known when ingested orally at doses of up to 9 g/day; however, smaller amounts may cause diarrhoea.

Recommended daily allowance (RDA): 60 mg.

12 Environmental information

12.1 Toxicity

Hardly toxic to fish (rainbow trout): LC50 (96 h) = 1020 mg/l.

Inhibitory concentration for substrate adhesion (*Dreissena polymorpha*) MIC (48 h) > 50 mg/l (nominal concentration).

12.2 Persistence and degradability

Easily biodegradable; 97% in 5 days, 100% in 15 days.

12.3 Bioaccumulative potential

No additional information available

12.4 Mobility in soil

No additional information available

12.5 Results of PBT and vPvB assessment

The substance is not PBT/vPvB.

12.6 Endocrine-disrupting properties

No additional information available

12.7 Other adverse effects

No additional information available

13 Disposal instructions

13.1 Waste treatment procedures

Product disposal

Dispose of waste in accordance with local/national regulations. Small quantities can be discharged into sewage treatment plants; larger quantities must be disposed of in approved incinerators with exhaust gas purification.

Packaging disposal

Dispose of empty containers and packaging in accordance with local regulations.

14 Transport information

14.1 Transport ADR/RID/ADN

No information available

14.2 Transport IMDG

No information available

14.3 Transport ICAO-TI / IATA

No information available

14.4 Packaging group

No information available

14.5 Environmental hazards

No information available

14.6 Special precautions for users

No information available

14.7 Transport in bulk by sea according to IMO regulations

No information available

15 Legislation

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

No classification or labelling according to EU directives.

The product is listed in the European Inventory of Existing Commercial Chemical Substances (EINECS).

15.2 Chemical safety assessment

No substance safety assessment has been carried out for this substance.

16 Other information

16.1 Abbreviations and acronyms

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

RID – Regulations concerning the International Carriage of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods Code

IATA – International Air Transport Association

GHS – Globally Harmonised System of Classification and Labelling of Chemicals

EINECS – European Inventory of Existing Commercial Chemical Substances

CAS – Chemical Abstracts Service

EC50 – Effective concentration, 50%

LC50 – Lethal concentration, 50%

LD50 – Lethal dose, 50%

TWA – Time Weighted Average

STEL – Short Term Exposure Limit

PBT – Persistent, Bioaccumulative and Toxic

vPvB – Very Persistent and Very Bioaccumulative

16.2 SVHC

The substances on the ECHA list (<http://echa.europa.eu/en/candidate-list-table>) are neither expected to be present in our products nor are they intentionally used in the production process. Our products do not come into contact with these substances during production. However, it is not possible to completely rule out traces of these substances: due to natural impurities or raw material-related properties, an unintentional content of less than 0.1% cannot be completely ruled out.

16.3 Note for users

The information in this data sheet is based on our current knowledge at the time of the last revision. The user is responsible for checking the suitability and completeness of the information in relation to the specific use of the product.

This document does not constitute a guarantee for specific properties of the product. As we have no direct influence on the use of the product, the user is obliged to comply with all applicable laws, regulations and safety and hygiene provisions on his own responsibility. We accept no liability for improper use. Personnel entrusted with the handling of chemicals must be appropriately trained.