12.09.2025

Safety information sheet

Version: 1.0 EN

Calcium ascorbate, E 302

Article number: D10331

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.

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1 Identification of the substance/mixture and the company

1.1 Product identifier

Name	Calcium ascorbate, E 302
CAS number	5743-28-2
EC number	227-261-5
REACH registration	-

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

Description/use	The product is intended for industrial use. For further information on specific applications, please contact us on the telephone number given - we will be happy to put you in touch with the relevant specialist department.

1.3 Details of the supplier providing the safety information sheet

Company	DistrEbution GmbH
Adress	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 oft he substance or mixture

Not classified according to Chemicals Regulation (EC) Nr.1272/2008.

2.2 Label elements

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

2.3 Other hazards

Bioaccumulative potential: Not applicable

Endocrine disrupting properties: Not applicable

3 Composition/information on ingredients

Chemical characterization:	Calcium ascorbate, E 302, buffered Vitamin C
CAS number	5743-28-2
EC number	227-261-5
REACH registration	-
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 plenty of running water for at least 10 minutes, keeping eyelids open.

After skin contact

Remove contaminated clothing. Wash affected skin thoroughly with water and soap. Do not use solvents.

Inhalation or ingestion

Move the affected person to fresh air and keep at rest. Seek medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5 Firefighting measures

5.1 Eytinguishing agents

Suitable extinguishing agents

Carbon dioxide (CO2), dry powder, water spray, foam

Unsuitable extinguishing agents

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5.2 Special hazards arising from the substance or mixture

Increased risk of dust explosion.

5.3 Advice fo firefighters

Knock down vapours/mist with water spray.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel not trained for emergencies

Avoid dust formation. Avoid inhalation of vapours, mists, or gases. For personal protective equipment, see Section 8.

6.2 Environmental precautions

Do not allow product to enter drains.

6.3 Methods and material for containment and cleaning up

Pick up solid material (avoid dust formation) and dispose of according to waste regulations. Rinse with plenty of water afterwards.

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protective equipment.

See section 13 for information on disposal.

7 Handling and storage

7.1 Precautions for safe handling

Process in closed systems, if possible under inert gas (e.g. nitrogen). Local exhaust ventilation required. Take precautions against electrostatic charging. Avoid dust formation. High risk of dust explosion.

7.2 Conditions for safe storage, including any incompatibilites

Store in non-metallic, tightly closed containers. Keep cool, dry and protected from light.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are identified.

8 Exposure controls/personal protective equipment

8.1 Parameters to be monitored

Components with workplace-related exposure limits.

8.2 Limitation and monitoring of exposure

8.2.1 Appropriate engineering controls

Use closed systems, local exhaust ventilation, or other technical measures to keep airborne concentrations below recommended limits.

8.2.2 Personal protective equipment

Respiratory protection

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

Thermal hazards

Not applicable.

Eye protection

Wear safety goggles.

8.3 Environmental exposure controls

Do not allow product to enter drains.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Crystalline powder
Colour	White to yellowish
Odour	Almost odorless
pH value	6,8 – 7,4 (in water)
Melting point/freezing point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Density	No data available
Relative Density	No data available
Water solubility	No data available
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

9.2 Other information

Information on physical hazard classes

No relevant data with regard to a specific physical hazard.

Other safety characteristics

No data available.

10 Stability and reactivity

10.1 Reactivty

No data available.

10.2 Chemical stability

Stable at room temperature under exclusion of moisture.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Moisture, heating.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

No data available.

11 Toxicological information

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

The product has not been tested. The information is based on the properties of the individual components.

Acute oral toxicity	LD50 (rat, oral): 11,900 mg/kg LD50 (mouse, oral): 8,000 mg/kg LD50 (mouse, in vitro): 518 mg/kg
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Skin corrosion/irritation	May cause irritation, particularly in conjunction with moisture (perspiration)
Serious eye damage/irritation	May cause irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No suspicion of mutagenic effects in humans.
Carcinogenicity	Not carcinogenic (several species)
Reproductive toxicity	Not teratogenic, not embryotoxic
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available

11.2 Information on other hazards

Information on likely routes of exposure

No data available

Symptoms related tot he physical, chemical and toxicological characteristics

No data available

Delayed and immediate effects as well as chronic effects from short- and long-term exposure

No data availabel

Interactive effects

No information available

11.3 Information on other hazards

11.3.1 Endocrine disrupting properties

No data available.

11.3.2 Other information

No data available.

12 Environmental information

12.1 Toxicity

No data available

12.2 Persistence and degradability

Readily biodegradable;

97 % after 5 days, 100 % after 15 days.

12.3 Bioaccumulatiove potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

13 Disposal instructions

13.1 Waste treatment methods

Observe local/national regulations for waste disposal.

Very small quantities may be discharged to a wastewater treatment plant.

Larger amounts: incinerate in an appropriate facility with flue gas scrubbing.

14 Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Packing group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

14.7 Transport in bulk by sea according to IMO regulations

No data available

15 Legislation

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

15.1.1 EU regulations

No classification and labelling according to EU directives; this product is listed in the European Inventory of Existing Commercial Chemical Substances (EINECS/ELINCS). Regulation (EU) 2019/1148 – Annex I: Restricted explosives precursors: None of the ingredients are listed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this substance.

16 Other information

16.1 Biological activity

1 I.U. (International Unit) of vitamin C corresponds to the activity of 50 µg of pure ascorbic acid.

16.2 Abbreviations and acronyms

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

IMDG - International Maritime Dangerous Goods Code

IATA - International Air Transport Association

ICAO-TI - International Civil Aviation Organization Technical Instructions

CLP - Classification, Classification, Labeling and Packaging of Substances and Mixtures

GHS - Globally Harmonized System of Classification and Labeling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

CAS - Chemical Abstracts Service (registration number)

REACH - Registration, Evaluation, Authorization and Restriction of Chemicals, Registration, Evaluation, Authorization and Restriction of Chemicals

PBT - Persistent, Bioaccumulative and Toxic

vPvB - Very Persistent and Very Bioaccumulative

PNEC - Predicted No Effect ConcentrationPBT - Persistent, Bioaccumulative and Toxic

vPvB - Very Persistent and Very Bioaccumulative

16.3 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.

16.4 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.