

Material Safety Data Sheets (MSDS)

L-Ascorbic Acid

Identification of Product

Chemical Code: CHE-A47

Chemical Name: L-Ascorbic Acid

Chemical Grade: AR

Chemical Formula: $C_6H_8O_6$

Chemical Weight: 176,12 g/mol

CAS No: 50-81-7

Chemical Synonyms: Ascorbic Acid,
Antiscorbutic factor,
Vitamin C.

Hazards Identification

REACH No: No Data Available

Signal Word:

Supplemental Hazard Information: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Additional Hazard Information: This substance contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

Hazards statements

Precautionary statements

Composition of Chemical

Chemical Formula: C₆H₈O₆

EC No 1272/2008: No Data Available

First Aid Measures

General Advice: Obtain medical assistance if feeling unwell.

If: Inhaled: Move person into fresh air. If not breathing, give artificial respiration. If: Skin Contact: Wash off with soap and plenty of water.

If: Eye Contact: Flush eyes with water as a precaution.

If: Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Important Symptoms: No Data Available

Immediate Medical Attention: No Data Available

Firefighting Measures

Extinguishing Media: Use Water spray, Alcohol-resistant foam, Dry chemical or Carbon Dioxide. Hazards Arising: Carbon Oxides.

Advice for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Info for Firefighting: No Data Available

Accidental Release Measures

Personal Precautions: Avoid dust formation.
Avoid breathing vapours, mist or gas.

Environmental Precautions: No special environmental precautions required.

Method for Containment: Sweep up and shovel.
Keep in suitable, closed containers for disposal.

Handling and Storage

Personal Precautions: Provide appropriate exhaust ventilation at places where dust is formed.

Environmental Precautions: Store in cool place.
Keep container tightly closed in a dry and well-ventilated place.

Light sensitive.

Exposure Controls | Personal Protection

Derived No Effect Level (DNEL)

Workers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Consumers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Predicted No Effect Concentration (PNEC)

No Data Available

Engineering Controls: General industrial hygiene practice.

Eye/Face Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact -

Material: Nitrile rubber. Minimum layer thickness: 0,11 mm

Break through time: 480 min. Material tested: Dermatril®

Splash contact -

Material: Nitrile rubber. Minimum layer thickness: 0,11 mm

Break through time: 480 min. Material tested: Dermatril®

Data source: KCL GmbH, D-36124 Test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory Protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Physical and Chemical Properties

Appearance: White crystals, usually plates but sometimes needles

Odour: No Data Available

Odour Threshold: No Data Available

pH: 1,0 - 2,5 (176 g/l at 25 °C)

Melting Point: Melting point/Range: 190 - 194 °C

Boiling Point: No Data Available

Flash Point: No Data Available

Evaporation: No Data Available

Flammability: No Data Available

Upper/Lower Flammability or Explosive Limits: No Data Available

Vapour pressure: No Data Available

Vapour density: No Data Available

Relative density: No Data Available

Water solubility: Soluble

Partition Coefficient: No Data Available

Auto-ignition Temperature: No Data Available

Decomposition Temperature: No Data Available

Viscosity: No Data Available

Explosive properties: No Data Available

Oxidizing properties: No Data Available

Other Safety Info: No Data Available

Stability and Reactivity

Reactivity: No Data Available

Chemical Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No Data Available

Conditions to Avoid: Light

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions - Carbon Oxides.

Toxicological Information

Acute Toxicity: LD50 Oral - Rat - 11.900 mg/kg.

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye:

Lacrimation. Behavioral: Somnolence (general depressed activity). Diarrhoea.

Skin Corrosion/Irritation: No Data Available

Serious Eye damage | Eye Irritation: No Data Available

Cell Mutagenicity: Mouse - Liver - Other mutation test systems.
Mouse - Micronucleus test.

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No Data Available

Specific Target Organ Toxicity - Single Exposure: No Data Available

Specific Target Organ Toxicity - Repeated Exposure: No Data Available

Aspiration Hazard: No Data Available

Ecological Information

Ecological Toxicity: No Data Available

Ecological Persistence and degradability: No Data Available

Bioaccumulative Potential: No Data Available

Mobility in Soil: No Data Available

Results of PBT and vPvB Assessment: This substance contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

Other Adverse Effect: No Data Available

Disposal Considerations

Waste Treatment Methods: Product -
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging - Dispose of as unused product.

Transport Information

UN Number: ADR/RID: -

IMDG: -

IATA: -

UN Shipping Hazard: ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport Hazard Class: ADR/RID: -

IMDG: -
IATA: -

Packaging Group: ADR/RID: -

IMDG: -
IATA: -

Environmental Hazards: ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Special Precautions: No data available

Regulatory Information

Safety, Health and environmental regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment: For this product a chemical safety assessment was not carried out.

Additional Info: RTECS: CI7650000

Chronic ingestion of large doses may cause Gastrointestinal disturbances including Nausea and Diarrhea, Urinary effects involving Urine Acidification, Oxalate and Uric crystallization in the Bladder and Kidney, and decreased reaction times and psychomotor coordination.

Disclaimer

The information stated above is considered to be correct, but does not claim to be inclusive and shall only be used as a guideline. The information provided by this document is confirmed by our continuous updating of knowledge and adheres to the products appropriate safety precautions. It does not represent any guarantee of the product's properties. RLS Chemicals and its Associates shall not be held accountable for any damage's consequent of handling the above product.