

Ascorbic Acid, JUNSEI CHEMICAL CO., LTD., 10303jis_J_E2-3,08/Apr/2024

Date of issue for the 1st edition : 30/Aug/2016

Date of revision : 08/Apr/2024

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking
Product identifier:
Product name: Ascorbic Acid
Reference number(SDS):10303jis_J_E2−3
Product type:
Quasi-drug Ingredients for Japan only
☆This product conform to JSQI(Japanese Standards of Quasi-drug Ingredients).
Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the product: Antioxidant, pH adjuster
Uses advised against: Do not use for other purposes.
Details of the supplier of the safety data sheet
Manufacturer/Supplier: JUNSEI CHEMICAL CO., LTD.
Address: 1-6, Ohmano-cho, Koshigaya-shi, Saitama 343-0844, Japan
Division: Quality Assurance Department
Telephone number: +81-48-986-6161
FAX: +81-48-989-2787
e-mail address: shiyaku-t@junsei.co.jp
Section 2. Hazards identification
GHS classification and label elements of the product
Classification of the substance or mixture
Classification of the substance or mixture Label elements
Label elements
Label elements No GHS label element
Label elements No GHS label element
Label elements No GHS label element
Label elements No GHS label element No Signal word
Label elements No GHS label element No Signal word Section 3. Composition/information on ingredients
Label elements No GHS label element No Signal word Section 3. Composition/information on ingredients Mixture/Substance selection:
Label elements No GHS label element No Signal word Section 3. Composition/information on ingredients Mixture/Substance selection: Substance
Label elements No GHS label element No Signal word Section 3. Composition/information on ingredients Mixture/Substance selection: Substance Common name, synonyms: Vitamin C; L(+)-Ascorbic acid
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Label elements No GHS label element No Signal word Section 3. Composition/information on ingredients Mixture/Substance selection: Substance Common name, synonyms: Vitamin C; L(+)-Ascorbic acid Ingredient name:L-Ascorbic acid Content (%):(Dried) 99.0< Chemical formula:C6H8O6
Label elements No GHS label element No Signal word Section 3. Composition/information on ingredients Mixture/Substance selection: Substance Common name, synonyms: Vitamin C; L(+)-Ascorbic acid Ingredient name:L-Ascorbic acid Content (%):(Dried) 99.0< Chemical formula:C6H8O6 Chemicals No, Japan:5-62
Label elements No GHS label element No Signal word Section 3. Composition/information on ingredients Mixture/Substance selection: Substance Common name, synonyms: Vitamin C; L(+)-Ascorbic acid Ingredient name:L-Ascorbic acid Content (%):(Dried) 99.0< Chemical formula:C6H8O6 Chemicals No, Japan:5-62 CAS No.:50-81-7

Section 4. First-aid measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical advice/attention.



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IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell. Most important symptoms and effects, both acute and delayed (Symptoms when inhalation or ingestion) Cough. Sore throat. (Symptoms when skin and/or eye contact) Conjunctival redness of the eyes Redness of the skin. Pain of the eyes. Indication of any immediate medical attention and special treatment needed Information on indication of any immediate medical attention and special treatment needed

is not available.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use water mist, foam, dry powder, CO2 to extinguish.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures Ventilate area until material pick up is complete. Wear proper protective equipment.
Environmental precautions Avoid release to headsprings, rivers, lakes, ocean and groundwater.
Methods and materials for containment and cleaning up Sweep up, place in a bag and hold for waste disposal. If appropriate, moisten first to prevent dusting.
Preventive measures for secondary accident Collect spillage.



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Section 7. Handling and storage
Precautions for safe handling
Preventive measures
(Exposure Control for handling personnel)
Avoid breathing dust/fume/gas/mist/vapors/spray.
(Protective measures against fire and explosion)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
(Exhaust/ventilator)
Exhaust/ventilator should be available.
(Safety treatments)
Avoid contact with skin.
Avoid contact with eyes.
Safety Measures
Vear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.
When using do not eat, drink or smoke.
Any incompatibilities
Strong bases, Oxidizing agents should not be mixed with the chemicals.
Storage
Conditions for safe storage
Store in a well-ventilated place.
Keep container tightly closed.
Keep cool. Protect from sunlight.
Store in accordance with local/national regulation.
Container and packaging materials for safe handling data is not available.
Specific end use(s)
See information in Section 7.1 and 7.2 for handling and storage recommendations. See
Section 8 for exposure controls and personal protection recommendations.
Section 8. Exposure controls/personal protection
Control parameters
Control value and concentration standard value are not available in ISHA.
Adopted value
Adopted value in JSOH is not available.
Adopted value in ACGIH is not available.
Exposure controls
Appropriate engineering controls
Do not use in areas without adequate ventilation.
Eye wash station should be available.
Washing facilities should be available.
Individual protection measures
Respiratory protection
Select and wear respiratory protection in accordance with approved standards (e.g. JIS T8150).
Recommended respiratory protection:Dust mask
Hand protection
Wear protective gloves.
Inspect before use and replace worn or damaged gloves.
Contact the glove manufacturer for specific advice on glove selection and breakthrough
Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.
times for your use conditions. Chemical-resistant, impervious gloves complying with an approved standard (e.g. JIST8116)
times for your use conditions.



Eye protection

Wear safety glasses with side-shields.

Wear eye/face protection in accordance with approved standards (e.g. JIS T8147).

Skin and body protection

Wear impervious clothing and boots in case of repeated or prolonged treatment.

Personal protective equipment for the body and skin should be selected based on the task being performed and the risks involved.

Section 9. Physical and Chemical Properties

Section 9. Physical and Chemical Properties
Information on basic physical and chemical properties
Physical state: Crystalline powder
Color: White
Odor: Odorless
Odor threshold data is not available.
Melting point/Freezing point: $187 \sim 192^{\circ}$ C
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Flammability (gases, liquids and solids) data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Flash point data is not available.
Auto-ignition temperature: 380
Decomposition temperature: $190 \sim 192^{\circ}C$
Self-Accelerating Decomposition Temperature/SADT data is not available.
pH: 2.4 \sim 2.8 (2% aqueous solution)
Dynamic viscosity data is not available.
Kinematic viscosity data is not available.
Solubility:
Solubility in water: 33 g/100 ml
Solubility in solvent: Sparingly soluble in ethanol; practically insoluble in diethyl ether.
n-Octanol/water partition coefficient: log Pow-2.15
Vapor pressure data is not available.
Vapor density data is not available.
Density and/or relative density: 1.65g/cm3(25°C)
Relative vapor density (Air=1) data is not available.
Relative density of the Vapor/air – mixture at 20°C (Air = 1) data is not available.
Particle characteristics data is not available.
Other information
Critical temperature data is not available.
Evaporation rate data is not available.
VOC data is not available.
Section 10 Stability and Reactivity

Section 10. Stability and Reactivity

Reactivity

Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

The substance is a strong reducing agent. It reacts violently with oxidants.

The solution in water is a medium strong acid.

Conditions to avoid

Contact with incompatible materials.

Open flames. Heating. Light. Air.



Incompatible materials Strong bases, Oxidizing agents Hazardous decomposition products Carbon oxides

Section 11. Toxicological Information	
Information on toxicological effects	
Acute toxicity	
Acute toxicity (Oral)	
[Product]	
Classification not possible (Insufficient data available or no data available).	
[Data for components of the product]	
rat LD50 >5000 mg/kg (SIDS, 1994)	
Acute toxicity (Dermal)	
[Product]	
Classification not possible (Insufficient data available or no data available).	
[Data for components of the product]	
No data available.	
Acute toxicity (Inhalation)	
[Product]	
Classification not possible (Insufficient data available or no data available).	
[Data for components of the product]	
No data available.	
Irritant properties	
Skin corrosion/irritation	
[Product]	
Classification not possible (Insufficient data available or no data available).	
[Data for components of the product]	
rabbit (OECD TG404) : Non-irritating (SIDS, 1994)	
Serious eye damage/irritation	
[Product]	
Classification not possible (Insufficient data available or no data available).	
[Data for components of the product]	
rabbit (OECD TG405) : Non-irritating (SIDS, 1994)	
Sensitization	
Respiratory sensitization	
[Product]	
Classification not possible (Insufficient data available or no data available).	
[Data for components of the product]	
No data available.	
Skin sensitization	
[Product]	
Classification not possible (Insufficient data available or no data available).	
[Data for components of the product]	
No data available.	
Germ cell mutagenicity	
[Product]	
Classification not possible (Insufficient data available or no data available).	
[Data for components of the product]	
No data available.	
Carcinogenicity	
[Product]	
Classification not possible (Insufficient data available or no data available).	



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[Data for components of the product] No data available.
Reproductive toxicity
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Specific target organ toxicity (STOT)
STOT-single exposure
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
STOT-repeated exposure
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Aspiration hazard
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.

Section	12.	Ecological	Information
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Toxicity

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Aquatic toxicity
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
Hazardous to the aquatic environment, short-term (acute)
Fish (Rainbow trout) LC50 >1000mg/L/96hr (SIDS, 1994)
Water solubility
[Data for components of the product]
33 g/100 ml (ICSC, 1997)
Persistence and degradability
Persistence and degradability data is not available.
Bioaccumulative potential
[Data for components of the product]
log Pow=-2.15 (ICSC, 1997)
Mobility in soil
Mobility in soil data is not available.
Other adverse effects
Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Dispose of contents/container in accordance with local/national regulation.



Section 14. Transport Information
UN No., UN CLASS
UN Number or ID Number : Not regulated
UN Proper Shipping Name : Not regulated
Class or division (Transport hazard class) : Not regulated
Packing group : Not regulated
IMDG Code (International Maritime Dangerous Goods Regulations)
UN Number or ID Number : Not regulated
UN Proper Shipping Name : Not regulated
Class or division (Transport hazard class) : Not regulated
Packing group : Not regulated
IATA (Dangerous Goods Regulations)
UN Number or ID Number : Not regulated
UN Proper Shipping Name : Not regulated
Class or division (Transport hazard class) : Not regulated
Packing group : Not regulated
Environmental hazards
Marine pollutants (yes/no) : no
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable to Transport in bulk according to Annex II of MARPOL and the IBC Code
Section 15. Regulatory Information
Safety, health and environmental regulations/legislation specific for the substance or mixture
U.S. Toxic Substances Control Act (TSCA) Inventory
Chemicals listed in TSCA Inventory
50-81-7

All components are listed or exempted.

Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

Regulatory information in this section are limited to intentional ingredient(s), but does not contain information on non-intentional ingredients or impurities which are not informed by supplier(s).

Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

Section 16. Other information

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN IMDG Code, 2022 Edition (Incorporating Amendment 41–22) IATA Dangerous Goods Regulations (65th Edition) 2024 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2024 TLVs and BEIs. (ACGIH) JIS Z 7252 : 2019 JIS Z 7253 : 2019 

Ascorbic Acid, JUNSEI CHEMICAL CO., LTD., 10303jis_J_E2-3,08/Apr/2024 2023 Recommendation on TLVs (JSOH) Notification No. 0111-1 (January 11, 2022), Chemical Hazards Control Division, Industrial Safety and Health Department, Labour Standards Bureau, MHLW in Japan Supplier's data/information Chemicals safety data management system "GHS Assistant" Version 4.27 (https://www.asahi-ghs.com/) NITE Chemical Risk Information Platform "NITE-CHRIP" (https://www.chem-info.nite.go.jp/chem/chrip/chrip_search/systemTop) GHS Classification Guidance for Enterprises 2019 Revised Edition (Ver. 2.0) (Mar. 2020, METI) Abbreviations and acronyms SDS (Safety Data Sheet) LD50 (Lethal Dose, 50%) LC50 (Lethal Concentration, 50%) IARC (International Agency for Research on Cancer) ACGIH (American Conference of Governmental Industrial Hygienists) EPA (US Environmental Protection Agency) NTP (US National Toxicology Program) METI (Ministry of Economy, Trade and Industry in Japan) MHLW (Ministry of Health, Labour and Welfare in Japan) MOE (Ministry of the Environment in Japan) JSOH (Japan Society for Occupational Health) EU (European Union) EC50 (Effective Concentration, 50%) NOEC (No Observed Effect Concentration) BOD (Biochemical Oxygen Demand) COD (Chemical Oxygen Demand) BCF (Bioconcentration Factor) anh (anhvdride) General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2022).