Safety Data Sheet

Date of revision: 2021/02/26

1.Product and company identification

Product name	DL-Aspartic Acid
Name of manufacturer	Yoneyama Yakuhin Kogyo Co.,Ltd.
Address	2-3-11 Doshomachi , Chuo-ku, Osaka, 541-0045, Japan
Contact for Information	Sales Division
Telephone number	06-6231-3555
Fax number	06-6223-1093
SDS No.	29641

2.Hazards identification

GHS Classification	
Physical hazards	Does not meet the classification criteria
GHSLabel Elements	
Symbol	—
Signal ward	—
Hazard statement	—

3.Composition/information on ingredients

Substance/Mixture	Substance
Chemical name or commercial name	DL-Aspartic Acid
Synonyms	DL-aminosuccinic acid
Chemical formula	$C_4H_7NO_4$
Numerical identifier	CAS RN：617-45-8
Ingredients and composition	100%

4.First and measures

INHALATION	Remove the victim from the contamination immediately to fresh air. Keep the victim warm and quiet. If breathing is weak irregular or has stopped, give artificial respiration. Treatment by a physician as soon as
SKIN CONTACT	Remove/Take off immediately all contaminated clothing.
	If skin irritation or rash occurs: Get medical advice/attention.
EYE CONTACT	Remove contact lenses, if present and easy to do. Continue rinsing.
INGESTION	Rinse mouth.
	Get medical advice/attention if you feel unwell.

5.Fire fighting measures

Suitable extinguishing media	spray water, alcohol-resistant foam, powder, carbon dioxide
Unsuitable extinguishing media	No data
Specific hazards arising from chemical	No data
Particular fire fighting	No data
Special protective actions for fire-fighters	Firefighting should be done upwind and avoid inhalation of toxic fumes.

6.Accidental release measure

Personal precaution, protective equipment and emergency procedures	Wear appropriate protective equipment and work from upwind to evacuate people downwind.
	Wear protective clothing, respirator, chemical safety goggles, rubber boots and heavy rubber gloves.
Environmental precautions	Be careful not to discharge it into rivers, etc. and cause environmental impact.
Removal measure	Prevents leakage, overflow, and scattering, and does not generate dust unnecessarily.
	No data

7.Handling and storage

Handling	
Technical measures	Prevents leakage, overflow, and scattering, and does not generate dust unnecessarily.
Precautions for safe handling	Store in a well-ventilated place. Keep cool and container tightly closed.
Contact avoidance method	Provision of very good ventilation in the working area. Washing facility at the workplace required.
Hygiene measures	Rinse and then wash skin with water and soap.
Storage	
Conditions for safe storage	Keep away from direct sunlight, high temperature and high humidity and store tightly closed.
Packaging compatibilities	polyethylene, polypropylene

8.Exposure controls/personal protection

Exposure limits	
ACGIH	—
Equipment measures	Provision of very good ventilation in the working area. Washing facility at the workplace required.
Protective equipment	
Respiratory protection	Air – supplied or self – contained NIOSH approved breathing apparatus.
Hand protection	Impervious protective gloves.
Eye protection	Safety goggles.
Skin protection	Protective clothing, protective boots.

9.Physical and chemical properties

Physical state	Crystal powder
Appearance	White
Odor	No data
pH	No data
Melting point/Freezing point	278～280℃ (Decomposition)
Boiling point	No data
Flash point	No data
Relative evaporation rate	No data
Combustible	No data
Upper/lower explosive limits	No data
Vapor pressure	No data
Vapor density	No data
Specific gravity	No data
Solubility	0.316g/100g (0℃,water), 0.816g/100g (25℃,water), 2.098g/100g (50℃,water), 2.794g/100g (75℃,water)
Partition coefficient: n-octanol/water	No data
Auto-ignition temperature	No data
Decomposition temperature	278～280℃
Viscosity	No data

10.Stability and reactively

Reactivity	No data
Chemical stability	Stable under normal handling. Colors when exposed to light for a long time
Possibility of hazardous reaction	No data
Condition to avoid	Protect from sunlight, high temperature and high humidity.
Contact avoidance method	Strong oxidants
Hazardous decomposition products	nitrogen oxides, carbon monoxide

11.Toxicological information

Acute toxicity	No data
Skin corrosion/irritation	No data
Eye damage/irritation	No data
Respiratory sensitization and Skin sensitization	No data
Germ cell mutagenicity	No data
Carcinogenicity	Not listed (NTP, IARC, OSHA) (Classification not possible)
Reproductive toxicity	No data
Specific target organ toxicity (single exposure)	No data
Specific target organ toxicity(repeated exposure)	No data
Aspiration hazard	No data

12.Ecological information

Hazardous to the aquatic environment	Acute:	No data
	Long-term:	No data
Persistence and degradability		No data
Bioaccumulative potential		No data
Mobility in soil		No data
Hazardous to the ozone layer		Not enumerated in Montreal Protocol on Substances that Deplete the Ozone Layer.

13.Disposal considerations

Residual disposal	If there is no way of recycling it must be disposed of in compliance with the respective national and local regulation.

It consigns it to the industrial waste disposal trader who has permission.

14.Transport information

UN Number	—
UN proper shipping name	—
Transport hazard class	—
Packing group	—
Additional identification	Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured. Ensure that the container valve is closed and not leaking. Prevent the product containers from falling over or falling.

15.Regulatory information

Please apply to the regulatory control in each country.

16.Other information

References	Global Harmonized System of Classification and Labelling of Chemicals(GHS) Sixth revised edition National Institute of Technology and Evaluation(NITE)
Attention	The Safety Data Sheet (SDS) is prepared based on JIS Z7253. All information contained herein is given in good faith and no warranty expressed or implied is made to its accuracy. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations and determine whether they are appropriate.