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Safety Data Sheet

1. Product and company identification

Product name	:	L-Aspartic acid
Name of manufacturer	:	KANTO CHEMICAL CO., INC.
Address	:	2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, Japan
Name of section	:	Reagent division, catalog and products information section
Telephone number	:	+81-3-6214-1090
Facsimile number	:	+81-3-3241-1047
Mail address	:	BC32@gms.kanto.co.jp
SDS No.	:	01453

2. Summary of danger and Hazard

GHS classification

Physical and chemical hazard

Flammable solids	:	Out of category
Pyrophoric solids	:	Out of category

Human health hazard

Acute toxicity(oral)	:	Out of category
Skin corrosion/irritation	:	Out of category
Serious eye damage/eye irritation	:	Out of category
Skin sensitization	:	Out of category
Carcinogenicity	:	Out of category
Reproductive toxicity	:	Out of category
Specific target organ systemic toxicity(single exposure)	:	Out of category
Specific target organ systemic toxicity(repeated exposure)	:	Out of category

3. Composition/Information on ingredients

Substance/Mixture	:	Substance
Chemical name or commercial name	:	L-Aspartic acid
Synonyms	:	L-β-Aminosuccinic acid
Ingredients and composition	:	L-Aspartic acid min. 99.0%
Chemical formula	:	HOOCCH2CH(NH2)COOH
CAS No.	:	56-84-8
TSCA Inventory	:	Registered
EINECS No.	:	2002916

4. First aid measures

Inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.

Skin contact : Wash the affected areas under running water.

Eye contact : Wash the affected areas under running water.

Ingestion : Give the victim water or salt water and induce vomiting. If necessary, get medical attention.

5. Fire fighting measures

Extinguishing media : Water, dry chemical powder, carbon dioxide, dry sand, foam

Prohibited extinguishing media

: None

Particular fire fighting : Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.

Protection for firefighters

: Firefighters should wear protective equipment.

6. Accidental release measures

Cautions for personnel : Wear proper protective equipment and avoid contact with skin and inhalation of dust. Conduct operations from upwind and evacuate people downwind.

Cautions for environment : Attention should be given to avoid discharge of spilled product into rivers and resulting environmental damage. When diluting spill with large amounts of water, discharge of untreated wastewater into the environment must be avoided.

Removal measure : Sweep up the chemical and place in a chemical waste container.

7. Cautions of handling and storage

Handling

Engineering measures : If necessary, wear proper protective equipment to avoid contact with skin or inhalation of dust.

Cautions for safety handling

: Avoid formation of dust and aerosols.

Storage

Adequate storage condition

: Store in a dark, cool place and tightly closed.

Safety adequate container materials

: Glass, polyethylene, polypropylene

8. Exposure control/Personal protection

Engineering measures : Use with an enclosed system or a local exhaust ventilation.

Control parameters

ACGIH(2015) : Not established

Protective equipment

Respiration protective equipment

: If necessary, wear dust mask

Hands protective equipment
: Impervious protective gloves

Eyes protective equipment
: Safety goggles

9. Physical and chemical properties

Appearance	:	Crystal or crystalline powder
Color	:	White
Odor	:	Odorless
pH	:	2.5～3.5 (4g/L, 20℃)
Boiling point	:	Decomposition(324℃)
Melting point	:	270～271℃
Density	:	1.661g/cm3 (20℃)
Solubility		
Solubility in solvents	:	Water ; 0.4%(20℃)
log Pow	:	-3.89

10. Stability and reactivity

Stability	:	Stable under normal conditions.
Reactivity	:	May react with strong oxidizing substances.
Incompatible conditions	:	Light, heat
Incompatible materials	:	Oxidizing substances
Hazardous decomposition products		
	:	Carbon monoxide, nitrogen oxides

11. Toxicological information

Acute toxicity : Oral : Out of category

Dermal : Not possible to classify because of insufficient data.

Inhalation(vapor) : Not possible to classify because of insufficient data.

Inhalation(dust, mist) : Not possible to classify because of insufficient data.

Skin corrosion/irritation : Out of category

Since pH of the aqueous solution is slightly acid, the classification is set to out of category.

Serious eye damage/eye irritation
: Out of category

Since pH of the aqueous solution is slightly acid, the classification is set to out of category.

Respiratory sensitization or Skin sensitization
: Respiratory sensitization : Not possible to classify because of insufficient data.

Skin sensitization : Out of category

Since L-aspartic acid is one kind of amino acids widerly existing in botanical kingdom, the classification is set to out of category.

Mutagenicity : Not possible to classify because of insufficient data.

Carcinogenic effects : Out of category

Since L-aspartic acid is one kind of amino acids widerly existing in botanical kingdom, the classification is set to out of category.

Effects on the reproductive system

: Out of category

Since L-aspartic acid is one kind of amino acids widerly existing in botanical kingdom, the classification is set to out of category.

Specific target organ systemic toxicity single exposure

: Out of category

Since L-aspartic acid is one kind of amino acids widerly existing in botanical kingdom, the classification is set to out of category.

Specific target organ systemic toxicity repeated exposure

: Out of category

Since L-aspartic acid is one kind of amino acids widerly existing in botanical kingdom, the classification is set to out of category.

Aspiration hazard : Not possible to classify because of insufficient data.

12. Ecological information

Ecotoxicity

Fish toxicity : Acute aquatic toxicity : Not possible to classify because of insufficient data.

Chronic aquatic toxicity : Not possible to classify because of insufficient data.

Persistence and degradability

: Not available

Bioaccumulative potential : Not available

13. Disposal consideration

Residual disposal : Mixed with flammable organic solvents and burn in a chemical incinerator equipped with an afterburner and a scrubber. Or entrust approved waste disposal companies with the disposal.

Containers : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

UN class : It is not regulated under UN regulations.

15. Regulatory information

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

16. Other information

References

Dictionary of Organic Compounds, The society of Synthetic Organic Chemistry, Kodansha Ltd. (1985)

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the product carefully.The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements.The information herein is only provision of information, and it does not represent a guarantee the properties of the product.The Safety Data Sheet(SDS) is prepared based on JIS Z7253, and it has the same required elements on the Material Safety Data Sheet(MSDS) which is prepared based on JIS Z7250:2010.