

Safety Data Sheet

1. Product and company identification

Product name : L(-)-Threonine
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
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Mail address : BC32@gms.kanto.co.jp
SDS No. : 40147

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

3. Composition/Information on ingredients

Substance/Mixture : Substance

Chemical name or commercial name

: L(-)-Threonine

Ingredients and composition

: L(-)-Threonine min. 99.0%

Chemical formula : CH3CH(OH)CH(NH2)COOH

CAS No. : 72-19-5

TSCA Inventory : Registered

EINECS No. : 2007741

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 immediately.

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 equipment and avoid contact with skin and inhalation of dust. Keep away personnel except for authorized ones from spillage area by stretching ropes.

Cautions for environment : Attention should be given not to cause damage to the environment by flowing of spillage to rivers. In case of the dilution of copious water, do not cause damage to the environment by untreated wastewater.

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 not to contact with skin or inhale the dust.

Cautions for safety handling

: Handle the chemical not to generate aerosol or dust.

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 only with adequate ventilation and in closed systems.

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 or slight odor

pH : 5.0-6.5(50g/water 1L, 20°C)



Boiling point : Decomposition
Melting point : 262-263°C
Specific gravity : Not available
Solubility
Solubility in solvents : Water ; 9%(25°C)
Organic solvents ; Insoluble in ethanol, diethyl ether, chloroform.

10. Stability and reactivity

Stability : Stable under normal usage.
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.
rat oral LD50>16g/kg
Skin corrosiveness : Out of category
Based on evidence of mild skin irritation, the substance was classified into out of category.
Serious eye damage, eye irritation : Out of category
Based on evidence of slight eye irritation, the substance was classified into out of category.
Respiratory sensitization or Skin sensitization : Respiratory sensitization : Not possible to classify because of insufficient data.
Skin sensitization : Not possible to classify because of insufficient data.
Mutagenicity : Not possible to classify because of insufficient data.
Carcinogenic effects : Not possible to classify because of insufficient data
Effects on the reproductive system : Not possible to classify because of insufficient data.
Specific target organ systemic toxicity single exposure : Not possible to classify because of insufficient data.
Specific target organ systemic toxicity repeated exposure : Not possible to classify because of insufficient data.
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.

