

Safety Data Sheet

1. Product and company identification

Product name : Tartaric acid solution (50%)
Name of manufacturer : KANTO CHEMICAL CO., INC.
Address : 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, Japan
Name of section : Electronic materials division technical department
Telephone number : +81-3-6214-1080
Facsimile number : +81-3-3241-1043
Mail address : el-info@gms.kanto.co.jp
SDS No. : GE00498

2. Summary of danger and Hazard

GHS classification

Physical and chemical hazard

Flammable liquids : Out of category
Pyrophoric liquids : Out of category
Self-heating substances and mixtures : Out of category

Human health hazard

Acute toxicity(oral) : Out of category
Skin corrosion/irritation : Category 1
Serious eye damage/eye irritation : Category 1
Specific target organ systemic toxicity(repeated exposure) : Out of category

Pictogram or symbol



Signal word : Danger
Hazard statement : Causes severe skin burns and eye damage
Causes serious eye damage

Cautions

Safety measurements : Do not breathe dust and mist.
Wear appropriate protective gloves, glasses, clothing, face shield, or mask.
Wash protective equipment thoroughly after use.
First-aid measures : If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical treatment if you feel unwell.

If swallowed: Rinse mouth, do not induce vomiting. Immediately get medical treatment.

If in eyes : Rinse cautiously with water for several minutes. Get medical treatment.

If on skin : Remove contaminated clothing and the substance. Immediately get medical treatment.

Storage : Store locked up.

Disposal : Dispose of contents and containers appropriately in accordance with related regulations.

3. Composition/Information on ingredients

Substance/Mixture : Substance

Chemical name or commercial name

: L(+)-Tartaric acid

Ingredients and composition

: Water solution contains 50% L(+)-Tartaric acid

Chemical formula : $\text{HOOC}(\text{CHOH})_2\text{COOH}$

CAS No. : 87-69-4

TSCA Inventory : Registered

EINECS No. : 2017660

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. If necessary, get medical treatment.

Ingestion : Give the victim water. If necessary, get medical attention.

5. Fire fighting measures

Extinguishing media : This product is noncombustible.

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 or inhalation of vapor.

Removal measure : Absorb spill with inert material (e.g., diatomaceous earth, sand) and flush spillage area with copious amounts of water.

7. Cautions of handling and storage

Handling

Engineering measures : Wear proper protective equipment to avoid contact with skin or inhalation of vapor.

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

: Not necessary

Hands protective equipment

: Impervious protective gloves

Eyes protective equipment

: Safety goggles

9. Physical and chemical properties

Appearance : Liquid

Color : Colorless

Odor : Odorless

pH : Strong acidity

Boiling point : Not available

Melting point : Not available

Flash point : Noncombustible

Density : Not available

Solubility

Solubility in solvents : Water ; Miscible

10. Stability and reactivity

Stability : Stable under normal conditions.

Reactivity : May react with alkaline substances.

Incompatible conditions : Light, heat

Incompatible materials : Alkaline substances

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.

oral LD50=8634mg/kg (as calculated value)

Skin corrosion/irritation : Causes severe skin burns and eye damage(category 1)
Since the solution is acidic and causes severe irritation to the skin,
it was classified into category 1.

Serious eye damage/eye irritation
: Causes serious eye damage(category 1)
Since the solution is acidic and causes severe irritation to the eyes,
it was classified into category 1.

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
: 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

Mobility in soil : Not available

13. Disposal consideration

Residual disposal : Dilute with copious water and adjust the pH to neutral, then flush in
drains. 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

Dangerous Properties of Industrial Materials, 6th ed. N. I. Sax Van
Nostrand Reinhold Company (1984)

Handbook of 16817 Chemical Products, The Chemical Daily Co. (2017)

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.