

Safety Data Sheet

1. Chemical product and company identification

Product name : Anisole

Company information

Name of manufacturer : KANTO CHEMICAL CO., INC.
Address : 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, JP
Name of section : Business Administration Department, Reagent Division
Telephone number : +81-3-6214-1090
Facsimile number : +81-3-3241-1047
Mail address : BC32@kanto.co.jp
Reference No : 01408
Product numbers applied by the SDS : 01408, 02016
Recommended use : For research use only
Restrictions on use : Seek expert judgment when using the product for applications other than those recommended.

2. Hazards identification

GHS classification

Physical hazards	Flammable liquids	Category 3
Environmental hazards	Aquatic acute	Category 3
	Aquatic chronic	Category 3

Hazard
pictograms



Signal word : Warning

Hazard statements : Flammable liquid and vapor
Harmful to aquatic life
Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take action to prevent static discharges.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .



Storage : Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

Synonyms : Methoxybenzene, Methyl phenyl ether, Phenyl methyl ether

Chemical name	Concentration (%)	Formula	TSCA	EC-No.	CAS RN
Anisole	≥ 99	C7H8O	Listed	202-876-1	100-66-3

4. First aid measures

First aid measures

First-aid measures after inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.

First-aid measures after skin contact : Wash the affected areas under running water.

First-aid measures after eye contact : Gently rinse the affected eyes with clean water for at least 15 minutes.

First-aid measures after ingestion : The chemical is volatile. Do not induce vomiting because it increases the risk of aspiration into the lungs. Get medical attention immediately. If necessary, rinse mouth with water.

Personal Protection in First Aid and Measures : Rescuers should wear proper protective equipment like rubber gloves, goggles.

5. Fire fighting measures

Suitable extinguishing media : Dry chemical powder, carbon dioxide, dry sand, foam

Unsuitable extinguishing media : Water spray

Firefighting instructions : 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.
Fight fire from windward.
Dry chemical powder, carbon dioxide or dry sand should be used for small fires. Foam extinguisher is effective for a large scale fire.

Personal protection (Emergency response) : Firefighters should wear protective equipment.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Wear proper protective equipment and avoid contact with skin and inhalation of vapor. Conduct operations from upwind and evacuate people downwind. Remove all sources of ignition. Keep away personnel except for authorized ones from spillage area by



stretching ropes.

Environmental precautions

Environmental precautions : Attention should be given to avoid damage to the environment by flowing of spillage to rivers.

Methods and Equipment for Containment and Cleaning up

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

Prevention Measures for Secondary Accidents : Remove nearby sources of ignition and prepare extinguishing media.

7. Handling and storage

Handling

Technical measures : Wear proper protective equipment to avoid contact with skin or inhalation of vapor. Fire is strictly prohibited.

Ventilate well at working places.

Precautions for safe handling : Avoid formation of vapor and aerosols.

Do not allow contact with oxidizing substances.

Storage

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

Material used in packaging/containers : Glass, fluorine resin, stainless steel.

8. Exposure controls / Personal protection equipment

ACGIH TWA	Not established
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Appropriate engineering controls : Use with an enclosed system or a local exhaust ventilation.

Protective equipment

Respiratory protection : Chemical cartridge respirator with an organic vapor cartage or airline respirator

Hand protection : Impervious protective gloves

Eye protection : Safety goggles

Skin and body protection : Protective clothing, protective boots

9. Physical and chemical properties

Physical state : Liquid

Color : Colorless.

Odor : Aromatic

pH : No data available

Melting point : -37.3 ° C

Freezing point : No data available

Boiling point : 153.75

Flash point : 41 ° C (C.C.)

Auto-ignition temperature : 475 ° C

Decomposition temperature : No data available



Flammability	: Flammable
Vapor pressure	: 0.47 kPa (25°C)
Relative density	: No data available
Density	: 0.993 - 0.999 g/cm ³ (20°C)
Relative gas density	: 3.7
Solubility	: Water: 1.71 g/L (20°C) Organic solvent: Soluble in acetone, ethanol.
Partition coefficient n-octanol/water (log Pow)	: 2.11
Explosive limits (vol %)	: No data available
Viscosity, kinematic	: 1.2 mm ² /s (20°C)
Particle characteristics	: No data available

10. Stability and reactivity

Reactivity	: May react with oxidizing substances.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Stable under normal conditions of use.
Conditions to avoid	: Light, heat.
Incompatible materials	: Oxidizing substances.
Hazardous decomposition products	: Carbon monoxide.

11. Toxicological information

Acute toxicity (oral)	: No classification rat LD50=3700 mg/kg
Acute toxicity (dermal)	: Classification not possible
Acute toxicity (inhalation)	: No classification (gas) Classification not possible (vapor) Classification not possible (dust, mist)
Skin corrosion/irritation	: No classification There is a description that in a skin irritation test (OECD TG 404, GLP, 4 hours, semi-occlusively) with rabbits, the mean scores at 24/48/72 hours for the erythema was 1.7/1.7/2.3, edema was 1.3/1.3/1.3, and these cutaneous reactions were fully reversible within 7 days, therefore it was concluded slightly irritating. From the above, it was classified as "No classification".
Serious eye damage/irritation	: No classification There is a description that in an eye irritation test (OECD TG 405, GLP) with rabbits, the mean scores for the cornea, iris, conjunctival redness at 24/48/72 hours were 0/0/0, and the mean scores for conjunctival edema was 0/0.3/0, and it was concluded no irritating to eyes. Therefore, it was classified as "No classification".
Respiratory sensitization	: Classification not possible
Skin sensitization	: Classification not possible
Germ cell mutagenicity	: Classification not possible Classification not possible due to lack of data from in vivo mutagenicity tests. From in vitro mutagenicity tests, there is a report of a negative Ames test (JECFA 52 (2004)).
Carcinogenicity	: Classification not possible
Reproductive toxicity	: Classification not possible



STOT-single exposure : Classification not possible
STOT-repeated exposure : Classification not possible
Aspiration hazard : Classification not possible

12. Ecological information

Ecotoxicity

Aquatic acute : Harmful to aquatic life
Daphnids EC50=11.05 mg/L/24h
Aquatic chronic : Harmful to aquatic life with long lasting effects

Persistence and degradability

Not readily biodegradable
BOD : 56%

Bioaccumulative potential

Low bioconcentration
log Pow : 2.11

Mobility in soil

No additional information available

Hazardous to the ozone layer

Ozone : Classification not possible

13. Disposal considerations

Ecological waste information : Burn in a chemical incinerator equipped with an afterburner and a scrubber. Or entrust approved waste disposal companies with the disposal.
Contaminated container and packaging : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) : 2222
Proper Shipping Name (IMDG) : ANISOLE
Packing group (IMDG) : III
Transport hazard class(es) (IMDG) : 3

Air transport(IATA)

UN-No. (IATA) : 2222
Proper Shipping Name (IATA) : Anisole
Packing group (IATA) : III
Transport hazard class(es) (IATA) : 3

Marine pollutant : Not applicable
MFAG-No : 128

15. Regulatory information

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



16. Other information

Data sources : NITE Chemical Risk Information Platform (NITE-CHRIP), National
Institute of Technology and Evaluation.
ICSC Card (2009) .
Solvents Handbook, T, Asahara et al, Kodansha Scientific Ltd.
(1976) .
ECHA (European Chemicals Agency).

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.

