

Date of issue: 2017/04/12 Date of revision: 2024/10/01

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Ethyl acetate SDS No. : 2851E-4
Relevant identified uses of the substance or mixture and uses advised against Research and Development
Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN Division: Chemical Safety Management Department Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607

Section 2. Hazards identification

GHS classification and label elements of the product Classification of the substance or mixture PHYSICAL AND CHEMICAL HAZARDS Flammable liquids: Category 2 HEALTH HAZARDS Acute toxicity (Inhalation): Category 4 Serious eye damage/eye irritation: Category 2B Specific target organ toxicity – single exposure: Category 3 (Respiratory tract irritation) Specific target organ toxicity – single exposure: Category 3 (Narcotic effects) (Note) GHS classification without description: Not classified/Classification not possible Label elements



Signal word: Danger HAZARD STATEMENT H225 Highly flammable liquid and vapor H332 Harmful if inhaled H320 Causes eye irritation H335 May cause respiratory irritation H336 May cause drowsiness or dizziness PRECAUTIONARY STATEMENT Prevention P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges.



P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P264 Wash contaminated parts thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P370 + P378 In case of fire: Use appropriate media to extinguish.

P312 Call a POISON CENTER/doctor/physician if you feel unwell.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

Specific adverse human health effects

See "11. Toxicological Information".

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name	Content (%)	CAS No.	ENCS	Chemical formula
Ethyl acetate	99(min)	141-78-6	2-726	CH3COOC2H5

Note : The figures shown above are not the specifications of the product.

Section 4. First-aid measures

Descriptions of first-aid measures

General measures

Call a POISON CENTER/doctor/physician if you feel unwell.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN

Take off immediately all contaminated clothing. Rinse skin with water or shower.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER/doctor/physician if you feel unwell.



Section 5. Fire-fighting measures Extinguishing media Suitable extinguishing media Use appropriate extinguishing media suitable for surrounding facilities. In case of fire, use spraying loaded liquid, foam (water-soluble liquid: alcohol-resistant foam), inactive gases, dry powder, dry sand to extinguish. *Fire Service Act Group 4 Hazardous Materials Unsuitable extinguishing media Indoor Fire Plug System or Outdoor Fire Plug System Sprinkler System Dry Chemical Extinguishing System-Others (except for phosphates etc., Hydrogen Carbonates etc.) Fire Extinguisher Discharging Jet Water/Spraying Water Fire Extinguisher Discharging Jet Loaded Liquid Fire Extinguisher Discharging Dry Extinguishing agents-Others (except for phosphates etc., Hydrogen Carbonates etc.) Water Bucket or Water Tank *Cabinet Order Concerning the Control of Hazardous Materials (Attached Table 5) Group 4 Hazardous Materials Specific hazards arising from the substance or mixture Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. See "10.Stability and Reactivity". Advice for firefighters Specific fire-fighting measures Evacuate non-essential personnel to safe area. Special protective equipment and precautions for fire-fighters Wear fire resistant or flame retardant clothing. Wear protective gloves/protective clothing/eye protection/face protection. Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode. Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses, low areas or rivers. To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

Collect spillage.



Precautions for safe handling Preventive measures (Exposure Control for handling personnel) Do not breathe dust/fume/gas/mist/vapors/spray. (Protective measures against fire and explosion) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. (Exhaust/ventilator) Exhaust/ventilator should be available. (Safety treatments) Avoid contact with skin. Avoid contact with eyes. Safety Measures Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands et al thoroughly after handling. When using do not eat, drink or smoke. Any incompatibilities See "10.Stability and Reactivity". Advice on general occupational hygiene Wash contaminated parts thoroughly after handling. Storage Conditions for safe storage Keep container tightly closed. Store locked up. (P405) Store in a cool, dry place. Do not store in direct sunlight. Storage in accordance with local/national regulation. Container and packaging materials for safe handling Use closed ubreakable containers.		Handling and storage
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Storage in accordance with local/national regulation. Container and packaging materials for safe handling		Store locked up. (P405)
Container and packaging materials for safe handling		Store in a cool, dry place. Do not store in direct sunlight.
		Storage in accordance with local/national regulation.
Use closed unbreakable containers.	Cont	ainer and packaging materials for safe handling
		Use closed unbreakable containers.

ection 8. Exposure controls/personal protection

Control parameters Control value and Concentration standard value Japan control value 200ppm Adopted value JSOH(1995) 200ppm; 720mg/m3 ACGIH(1979) TWA: 400ppm (URT & eye irr) Exposure controls Appropriate engineering controls Do not use in areas without adequate ventilation. Eye wash station should be available. Washing facilities should be available. Individual protection measures



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Recommend to use protective equipment in conformity with the standards.

Use appropriate protective equipment in accordance with local/national regulation.

Respiratory protection

Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge corresponding to type of gases when using a gas mask.

Hand protection

Wear impervious protective glove.

Eye protection

Wear eye/face protection. Wear safety goggles in cases gas is generated.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Liquid **Color: Colourless** Odor: Characteristic odor Melting point/Freezing point: -84°C Boiling point or initial boiling point: (Ethyl acetate)77°C Boiling range data is not available. Flammability (gases, liquids and solids) data is not available. Lower and upper explosion limit/flammability limit: Lower explosion limit: 2.0 vol % Upper explosion limit: 12.8 vol % Flash point: (Ethyl acetate)(C.C.) -4°C Auto-ignition temperature: (Ethyl acetate)427°C Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: (Poor) 8.7 g/100 ml (20°C) Solubility in solvent data is not available. n-Octanol/water partition coefficient: log Pow0.73 Vapor pressure: 10 kPa (20°C) Density and/or relative density: 0.9 Relative vapor density (Air=1): 3 Relative density of the Vapor/air - mixture at 20°C (Air = 1): 1.2 Particle characteristics data is not available. Other information Other information is not available.

Section 10. Stability and Reactivity

Reactivity

Not available. Chemical stability Stable under normal storage/handling conditions. Possibility of hazardous reactions

The vapour is heavier than air and may travel along the ground; distant ignition possible.



Reacts with strong oxidants. This generates fire and explosion hazard. Reacts violently with strong bases and strong acids. Attacks rubber and some forms of plastic. (ICSC 0367)

Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents

Hazardous decomposition products

Carbon oxides

Section 11. Toxicological Information

Information on toxicological effects Acute toxicity Acute toxicity (Oral) [Data for components of the product] [GHS Cat. Japan, base data] rat LD50=5600mg/kg (ACGIH 7th, 2001) Acute toxicity (Dermal) [Data for components of the product] [GHS Cat. Japan, base data] rabbit LD50 > 18000mg/kg (SIDS, 2008) Acute toxicity (Inhalation) [Product] Category 4, Harmful if inhaled [Data for components of the product] [GHS Cat. Japan, base data] vapor: rat LC50=14640ppm/4hr (DFGOT vol.12, 1999) Irritant properties Skin corrosion/irritation data is not available. Serious eye damage/irritation [Product] Category 2B, Causes eye irritation [Data for components of the product] [GHS Cat. Japan, base data] rabbit transient irritation, recover within 7 days (ECETOC TR48, 1998) Allergenic and sensitizing effects data is not available. Mutagenic effects data is not available. Carcinogenic effects data is not available. Reproductive toxicity data is not available. Specific target organ toxicity (STOT) STOT-single exposure [Product] Category 3, May cause respiratory irritation Category 3, May cause drowsiness or dizziness [Data for components of the product] [cat.3 (respiratory tract irritation)] [GHS Cat. Japan, base data] respiratory tract irritation (ACGIH 7th, 2001; MOE Environmental Risk Assessment for Chemical Substances, vol.10, 2012)



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[cat.3 (narcotic effects)] [GHS Cat. Japan, base data] narcotic effect (ACGIH 7th, 2001; SIDS, 2008) STOT-repeated exposure data is not available. Aspiration hazard data is not available.

Section 12. Ecological Information

Toxicity
Aquatic toxicity
[Data for components of the product]
Hazardous to the aquatic environment, short-term (acute)
[GHS Cat. Japan, base data]
Crustacea (Daphnia pulex) EC50=262 mg/L/48hr; Fish (Pimephales promelas) LC50=230mg/L/96hr
(MOE risk assessment vol.10, 2012)
Hazardous to the aquatic environment, long-term (chronic)
[GHS Cat. Japan, base data]
Crustacea (Daphnia magna) NOEC=2.4mg/L/21days (ECETOC TR91, 2003)
Water solubility
8 g/100 ml (PHYSPROP_DB, 2009)
Persistence and degradability
[Data for components of the product]
Rapidly degradable (BOD_Degradation : 66, 112, 105%/28day (MITI official bulletin, 1993)
Bioaccumulative potential
[Data for components of the product]
log Pow=0.73 (ICSC, 2014)
Mobility in soil
Mobility in soil data is not available.
Other adverse effects
Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Dispose of contents/container as industrial waste. Accordance with local/national regulation.

Section 14. Transport Information

UN Number or ID Number : 1173 UN Proper Shipping Name : ETHYL ACETATE Class or division (Transport hazard class) : 3 Packing group : II ERG GUIDE No.: 129 IMDG Code (International Maritime Dangerous Goods Regulations) UN Number or ID Number : 1173 UN Proper Shipping Name :



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ETHYL ACETATE Class or division (Transport hazard class) : 3 Packing group : II IATA (Dangerous Goods Regulations) UN Number or ID Number : 1173 UN Proper Shipping Name : ETHYL ACETATE Class or division (Transport hazard class) : 3 Hazard labels : Flamm.liquid Packing group : II Environmental hazards Marine pollutants (yes/no) : no

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory Applicable

Other regulatory information

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

Section 16. Other information

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN IMDG Code, 2022 Edition (Incorporating Amendment 41–22) IATA Dangerous Goods Regulations (65th Edition) 2024 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2024 TLVs and BEIs. (ACGIH) JIS Z 7252 : 2019 JIS Z 7253 : 2019 2023 Recommendation on TLVs (JSOH) Supplier's data/information

General Disclaimer

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Unauthorized translation or modification is prohibited.

Please provide SDS to customers for selling or transferring.

All chemicals have unknown hazard. Handle the product with care.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2022).