



## Safety Data Sheet

### 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Methyl acetate

SDS No. : 4857E-3

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Safety Management Dept. of Chemicals

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

e-mail address: kagakuhinanzenkanri@kishida.co.jp

### 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

Serious eye damage/eye irritation: Category 2B

Specific target organ toxicity – single exposure: Category 1(optic nerve)

Specific target organ toxicity – single exposure: Category 3 (Respiratory tract irritation)

Specific target organ toxicity – single exposure: Category 3(Narcosis)

Specific target organ toxicity – repeated exposure: Category 1(optic nerve)

(Note) GHS classification without description: Not classified/Classification not possible

Label elements



Signal word: Danger

HAZARD STATEMENT

Highly flammable liquid and vapor

Causes eye irritation

Causes damage to organs after single exposure(optic nerve)

May cause respiratory irritation

May cause drowsiness or dizziness

Causes damage to organs through prolonged or repeated exposure(optic nerve)

PRECAUTIONARY STATEMENT

Prevention

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wash contaminated parts thoroughly after handling.



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

Do not eat, drink or smoke when using this product.

#### Response

In case of fire: Use appropriate media other than water for extinction.

Get medical advice/attention if you feel unwell.

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

IF exposed or concerned: Call a POISON CENTER or doctor/physician.

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

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

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.

#### Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

#### Disposal

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

#### Specific Physical and Chemical hazards

Highly flammable liquid. Vapor/air mixture may explode.

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### 3. Composition/information on ingredients

#### Mixture/Substance selection:

##### Substance

Ingredient name:Methyl acetate

Content (%):95(min)

Chemical formula:CH<sub>3</sub>COOCH<sub>3</sub>

Chemicals No, Japan:2-725

CAS No.:79-20-9

MW:74.08

ECNO:201-185-2

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

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### 4. First-aid measures

#### Descriptions of first-aid measures

##### General measures

Get medical attention/advice if you feel unwell.

##### IF INHALED

Remove person to fresh air and keep comfortable for breathing.

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

##### IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/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 or doctor/physician if you feel unwell.



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## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

In case of fire, use foam, dry powder, CO<sub>2</sub> to extinguish.

#### Unsuitable extinguishing media

Indoor firefighting equipment or outdoor firefighting equipment

Sprinkler equipment

Dry-powder firefighting equipment – except for phosphate etc.,hydrogen carbonate etc.

Straight stream water extinguisher

Water mist extinguisher

Reinforcing liquid jet extinguisher

Dry-powder extinguisher – except for phosphate etc.,hydrogen carbonate etc.

Bucket of water or tank of water

### Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

### Advice for firefighters

#### Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

#### Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

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

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

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## 6. Accidental release measures

### Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

### Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

### 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.

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## 7. Handling and storage

### 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/sparks/open flames/hot surfaces. – No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

(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.

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.

Do not eat, drink or smoke when using this product.

#### Storage

##### Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

##### Container and packaging materials for safe handling

Glass

Stainless steel

Iron

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## 8. Exposure controls/personal protection

### Control parameters

#### Adopted value

(Methyl acetate)

ACGIH(2012) TWA: 200ppm;

STEL: 250ppm (Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina))

#### OSHA-PEL

(Methyl acetate)

TWA: 200ppm, 610mg/m<sup>3</sup>

### 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

##### Respiratory protection

Wear respiratory protection.

##### Hand protection

Wear protective gloves.

##### Eye protection

Wear eye/face protection.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor: Characteristic odor

Melting point/Freezing point: -98°C

Boiling point or initial boiling point: 57°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: 3.1 vol %

Upper explosion limit: 16 vol %

Flash point: (Methyl acetate)(C.C.) -13°C

Auto-ignition temperature: 505°C

Decomposition temperature data is not available.

pH data is not available.

Dynamic viscosity: 0.381mPas(20°C)

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Poor (24.4 g/100 ml, 20°C)

n-Octanol/water partition coefficient: log Pow0.18

Vapor pressure: 23.1 kPa (20°C)

Density and/or relative density: 0.93

Relative vapor density (Air=1): 2.6

Relative density of the Vapor/air - mixture at 20°C (Air = 1): 1.3

No Particle characteristics data is not available.

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## 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.

It reacts with strong oxidants. This generates fire or explosion hazard. It reacts violently with strong acids and strong bases. Attacks rubber and some forms of plastic. (ICSC 0507)

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

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## 11. Toxicological Information

Information on toxicological effects

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation data is not available.

Serious eye damage/irritation

[GHS Cat. Japan, base data]

(Methyl acetate)

rabbit recover within 7 days (EU-RAR, 2003)

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.

STOT

STOT-single exposure

[cat.1]



[GHS Cat. Japan, base data]  
(Methyl acetate)  
optic nerve (PATTY 6th, 2012)  
[cat.3 (resp. irrit.)]  
[GHS Cat. Japan, base data]  
(Methyl acetate)  
respiratory tract irritation (PATTY 6th, 2012)  
[cat.3 (drow./dizz.)]  
[GHS Cat. Japan, base data]  
(Methyl acetate)  
narcotic effect (PATTY 6th, 2012)  
STOT-repeated exposure  
[cat.1]  
[GHS Cat. Japan, base data]  
(Methyl acetate)  
optic nerve (ACGIH 7th, 2013)  
Aspiration hazard data is not available.

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## 12. Ecological Information

Ecotoxicity  
Aquatic toxicity  
Hazardous to the aquatic environment (Acute)  
[GHS Cat. Japan, base data]  
(Methyl acetate)  
Algae (green Algae) EC50 > 120mg/L/72hr (EU-RAR, 2003)  
Water solubility  
(Methyl acetate)  
24.4 g/100 ml (20°C) (ICSC, 2014)  
Persistence and degradability  
Persistence and degradability data is not available.  
Bioaccumulative potential  
(Methyl acetate)  
log Pow=0.18 (ICSC, 2014)  
Mobility in soil  
Mobility in soil data is not available.  
Other adverse effects  
Ozone depleting chemical data is not available.

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## 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 in accordance with local/national regulation.

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## 14. Transport Information

UN No.: 1231  
Proper Shipping Name :  
METHYL ACETATE  
Class or division : 3  
Packing group : II  
ERG GUIDE No.: 129

**IMDG Code (International Maritime Dangerous Goods Regulations)**

UN No.: 1231

Proper Shipping Name :

METHYL ACETATE

Class or division : 3

Packing group : II

**IATA Dangerous Goods Regulations**

UN No.: 1231

Proper Shipping Name :

METHYL ACETATE

Class or division : 3

Hazard labels : Flamm.liquid

Packing group : II

**Environmental hazards**

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

MARPOL Annex V – Prevention of pollution by garbage discharge

Specific target organ toxicity – repeated exposure: cat.1

Methyl acetate

**Transport in bulk according to Annex II of MARPOL73/78 and IBC Code**

Noxious Liquid ; Cat. Z

Methyl acetate

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**15. Regulatory Information**

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

**US Federal Regulations**

Chemicals listed in TSCA Inventory

Methyl acetate

**Other regulatory information**

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

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**16. Other information****GHS classification and labelling**

Flam. Liq. 2: H225 Highly flammable liquid and vapor

Eye Irrit. 2B: H320 Causes eye irritation

STOT SE 1: H370 Causes damage to organs after single exposure

STOT SE 3: H335 May cause respiratory irritation

STOT SE 3: H336 May cause drowsiness or dizziness

STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure

**Reference Book**

Globally Harmonized System of classification and labelling of chemicals, (6th ed., 2015), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (61th Edition) 2020

Classification, labelling and packaging of substances and mixtures (Table 3 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2020 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

**General Disclaimer**

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 2018).