

Date of issue: 12/07/2017 Date of revision: 19/11/2019

# Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Ethyl methyl carbonate Product code (SDS NO): 3138E-2
 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

 Hazards identification GHS classification and label elements of the product Classification of the substance or mixture PHYSICAL AND CHEMICAL HAZARDS Flammable liquids: Category 3
 (Note) CHS classification without description: Not classifier

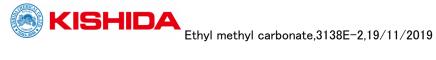
(Note) GHS classification without description: Not classified/Classification not possible Label elements



Signal word: Warning HAZARD STATEMENT Flammable liquid and vapor 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. Wear protective gloves/protective clothing/eye protection/face protection. Response In case of fire: Use appropriate media other than water for extinction. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Storage Store in a well-ventilated place. Keep cool. Disposal Dispose of contents/container in accordance with local/national regulation. Specific Physical and Chemical hazards Flammable liquid. Vapor/air mixture may explode.



Composition/information on ingredients	
Mixture/Substance selection:	
Substance	
Ingredient name:Ethyl methyl carbonate Content (%):99(min) Chemical formula:(C2H5O)CO(OCH3) Chemicals No, Japan:2-3698 CAS No.:623-53-0	
MW:104.11	
Note : The figures shown above are not the specifications of the product.	
First-aid measures	
Descriptions of first-aid measures	
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 eas	SV.
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.	
Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	
In case of fire, use foam, dry powder, CO2 to extinguish.	
Unsuitable extinguishing media Indoor firefighting equipment or outdoor firefighting equipment	
Indoor Tiretignting equipment or outdoor Tiretignting equipment	
Sprinkler equipment	
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6. Accidental release measures	
<ul> <li>Personnel precautions, protective equipment and emergency procedures         <ul> <li>Ventilate area until material pick up is complete.</li> <li>Wear proper protective equipment.</li> </ul> </li> <li>Environmental precautions         <ul> <li>Prevent spills from entering sewers, watercourses or low areas.</li> </ul> </li> <li>Methods and materials for containment and cleaning up         <ul> <li>Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.</li> </ul> </li> <li>Preventive measures for secondary accident</li> </ul>	
	al waste
Collect spillage.	
7. Handling and storage	
Precautions for safe handling	
Preventive measures	
(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	
Wear protective gloves/protective clothing/eye protection/face protection.	
When using do not eat, drink or smoke.	
Any incompatibilities	
See "10.Stability and Reactivity"	
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	
8. Exposure controls/personal protection	
Control parameters	
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.

9. Physical and Chemical Properties Information on basic physical and chemical properties Physical state: Liquid (20°C) Color: Colorless, Clear Odor: Ether odour pH data is not available. Boiling point or initial boiling point: 107°C Boiling range data is not available. Melting point/Freezing point: -55°C Decomposition temperature data is not available. Flammability (gases, liquids and solids) data is not available. Flash point: (Ethyl methyl carbonate)23°C Auto-ignition temperature data is not available. Lower and upper explosion limit/flammability limit data is not available. Vapor pressure data is not available. Relative vapor density (Air=1) data is not available. Density and/or relative density: 1.012g/cm3 (20°C) Kinematic viscosity data is not available. Solubility: Solubility in water: Insoluble n-Octanol/water partition coefficient data is not available.

No Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity
Not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Not available.

Conditions to avoid

Contact with incompatible materials.
Contact with fire source.

Incompatible materials

Strong oxidizing agents
Hazardous decomposition products
Carbon oxides

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 data is not available.
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 data is not available.

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

12. Ecological Information

Ecotoxicity
Ecotoxicity data is not available.
Persistence and degradability
Persistence and degradability data is not available.
Bioaccumulative potential
Bioaccumulative potential data is not available.
Mobility in soil
Mobility in soil data is not available.
Other adverse effects
Ozone depleting chemical data is not available.

## 13. Disposal considerations

14. Transport Information

Waste treatment methods

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

### UN No.: 1993 Proper Shipping Name : FLAMMABLE LIQUID, N.O.S. Class or division : 3

Packing group : III ERG GUIDE No.: 128 Special provisions No.: 223; 274 IMDG Code (International Maritime Dangerous Goods Regulations) UN No.: 1993 Proper Shipping Name : FLAMMABLE LIQUID, N.O.S. Class or division : 3 Packing group : III Special provisions No.: 223; 274; 955 IATA Dangerous Goods Regulations UN No.: 1993 Proper Shipping Name : FLAMMABLE LIQUID, N.O.S. Class or division : 3 Hazard labels : Flamm.liquid Packing group : III Special provisions No.: A3 Environmental hazards MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : no



#### 15. Regulatory Information Safety, health and environmental regulations/legislation specific for the substance or mixture

US major regulations

TSCA

Ethyl methyl carbonate

Other regulatory information

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

#### 16. Other information

GHS classification and labelling

Flam. Liq. 3: H226 Flammable liquid and vapor

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 (60th Edition) 2019 Classification, labelling and packaging of substances and mixtures (table3–1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2019 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).