

Date of issue: 27/02/2018 Date of revision: 18/08/2020

Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Ethylene carbonate SDS No. : 2901E-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 HEALTH HAZARDS Skin corrosion/irritation: Category 2 Serious eye damage/eye irritation: Category 2A (Note) GHS classification without description: Not classified/Classification not possible

Label elements



Signal word: Warning HAZARD STATEMENT Causes skin irritation Causes serious eye irritation PRECAUTIONARY STATEMENT Prevention Wash contaminated parts thoroughly after handling. Wear protective gloves. Wear eye protection/face protection. Response IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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.

3. Composition/information on ingredients Mixture/Substance selection: Substance

Ingredient name:Ethylene carbonate Content (%):98(min) Chemical formula:C3H4O3



Chemicals No, Japan:5-523 CAS No.:96-49-1 MW:88.06 ECNO:202-510-0 Note : The figures shown above are not the specifications of the product.

4. 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. Wash with plenty of soap and water. 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. 5. Fire-fighting measures Extinguishing media Suitable extinguishing media Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media data is not available.

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 peace operated positive pressure mode.

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

Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

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.
	(Exhaust/ventilator)
	Exhaust/ventilator should be available.
	(Safety treatments)
	Avoid contact with skin.
	Avoid contact with eyes.
	Safety Measures
	Wear protective gloves, protective clothing or face protection.
	Wear 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.
	Take off contaminated clothing and wash it before reuse.
	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
	Polyethylene
	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.
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: Solid (20°C)
Color: White
Odor: Odorless
Melting point/Freezing point: 34 through 37°C
Boiling point or initial boiling point: 244°C
Boiling range data is not available.



Flammability (gases, liquids and solids) data is not available. Lower and upper explosion limit/flammability limit data is not available. Flash point: (Ethylene carbonate)143°C Auto-ignition temperature data is not available. Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: Soluble n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Density and/or relative density: 1.32(40°C) Relative vapor density (Air=1) 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 (Ethylene carbonate) Decomposes on burning. This produces ethylene oxide and CO2. Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Acids, Bases, Oxidizing agents, Reducing agents Hazardous decomposition products Carbon oxides

11. Toxicological Information Information on toxicological effects Acute toxicity Acute toxicity (Oral) [Company proprietary data] (Ethylene carbonate) rat LD50>5000 mg/kg Irritant properties Skin corrosion/irritation [Company proprietary data] (Ethylene carbonate) Category 2 Serious eye damage/irritation [Company proprietary data] (Ethylene carbonate) Category 2A 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

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.

14. Transport Information Not applicable to UN No., UN CLASS Not applicable to IMDG Code Not applicable to IATA Dangerous Goods Regulations 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 Federal Regulations** Chemicals listed in TSCA Inventory Ethylene 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

Skin Irrit. 2: H315 Causes skin irritation

Eye Irrit. 2A: H319 Causes serious eye irritation

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).