

## Safety Data Sheet

### 1. Product and company identification

Product name : 1-Ethyl-3-methylimidazolium methylphosphonate  
 Name of manufacturer : KANTO CHEMICAL CO., INC.  
 Address : 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, Japan  
 Name of section : Reagent division, catalog and products information section  
 Telephone number : +81-3-6214-1090  
 Facsimile number : +81-3-3241-1047  
 Mail address : BC32@gms.kanto.co.jp  
 SDS No. : 14670

### 2. Summary of danger and Hazard

#### GHS classification

##### Physical and chemical hazard

Flammable liquids : Out of category  
 Pyrophoric liquids : Out of category

### 3. Composition/Information on ingredients

Substance/Mixture : Substance  
 Chemical name or commercial name : 1-Ethyl-3-methylimidazolium methylphosphonate

Synonyms : AMImBF4

#### Ingredients and composition

: 1-Ethyl-3-methylimidazolium methylphosphonate min. 97%

Chemical formula : C7H15N2O3P

CAS No. : 1137959-66-0

TSCA Inventory : Not registered

EINECS No. : -

### 4. First aid measures

Inhalation : Remove the victim to fresh air, and make him blow his nose and gargle. If necessary, get medical treatment.  
 Skin contact : Wash the affected areas under running water.  
 Eye contact : Wash the affected areas under running water for at least 15 minutes. Get medical treatment.  
 Ingestion : Give the victim water or salt water and make him vomit. Get medical attention.

### 5. Fire fighting measures

Extinguishing media : Dry chemical powder, carbon dioxide, dry sand, foam

Prohibited extinguishing media

: Water spray



Particular fire fighting : 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.

#### Protection for firefighters

: Firefighters should wear protective equipment.

### 6. Accidental release measures

Cautions for personnel : Wear proper protective equipment and avoid contact with skin and inhalation of vapor. Keep away personnel and perform the operation at upwind area.

Cautions for environment : Attention should be given not to cause damage to the environment by flowing of spillage to rivers. In case of the dilution of copious water, do not cause damage to the environment by untreated wastewater.

Removal measure : Absorb spill with inert material (e.g., diatomaceous earth, sand) and flush residual area with copious amounts of water.

### 7. Cautions of handling and storage

#### Handling

Engineering measures : If necessary, wear appropriate protective equipment not to contact with skin or inhale the vapor.

#### Cautions for safety handling

: Handle at a well ventilated place.

Cautions : Do not contact with oxidizing substances.

#### Storage

##### Adequate storage condition

: Store in a refrigerator and tightly closed. (0°C~6°C)

##### Safety adequate container materials

: Glass, fluorine resin

### 8. Exposure control/Personal protection

Engineering measures : Use only with adequate ventilation and in closed systems.

#### Control parameters

ACGIH(2009) : Not established

#### Protective equipment

##### Respiration protective equipment

: If necessary, wear chemical cartridge respirator with an organic vapor cartridge

##### Hands protective equipment

: Impervious protective gloves

##### Eyes protective equipment

: Safety goggles

### 9. Physical and chemical properties

Appearance : Liquid

Color : Colorless ~ pale yellow

Odor : Odorless

Boiling point : Not available



Melting point : Not available

Flash point : Not available

Specific gravity : Not available

Solubility

Solubility in solvents : Water : Readily soluble

Organic solvents : Readily soluble in acetone, methanol, ethanol, dichloromethane, acetonitrile, soluble in tetrahydrofuran, insoluble in diethyl ether, hexane, toluene.

## 10. Stability and reactivity

Stability : Stable under normal usage.

Reactivity : May react with oxidizing substances.

Incompatible conditions : Light, heat

Incompatible materials : Oxidizing substances

Hazardous decomposition products

: Carbon monoxide, Nitrogen oxide, Phosphorus oxide

## 11. Toxicological information

Acute toxicity : Oral : Not possible to classify because of insufficient data.

Dermal : Not possible to classify because of insufficient data.

Inhalation(vapor) : Not possible to classify because of insufficient data.

Inhalation(dust, mist) : Not possible to classify because of insufficient data.

Skin corrosiveness : Not possible to classify because of insufficient data.

Irritation to skin, eyes : Not possible to classify because of insufficient data.

Respiratory sensitization or Skin sensitization

: Respiratory sensitization : Not possible to classify because of insufficient data.

Skin sensitization : Not possible to classify because of insufficient data.

Mutagenicity : Not possible to classify because of insufficient data.

Carcinogenic effects : Not possible to classify because of insufficient data

Effects on the reproductive system

: Not possible to classify because of insufficient data.

Specific target organ systemic toxicity single exposure

: Not possible to classify because of insufficient data.

Although, inhalation of vapor may cause irritation of nose, throat, and trachea, it is not possible to classify because of insufficient data.

Specific target organ systemic toxicity repeated exposure

: Not possible to classify because of insufficient data.

Aspiration hazard : Not possible to classify because of insufficient data.

## 12. Ecological information

Ecotoxicity



Kanto Chemical Co., Inc.

Fish toxicity : Acute aquatic toxicity : Not possible to classify because of insufficient data.  
Chronic aquatic toxicity : Not possible to classify because of insufficient data.

#### Redidualility and degradability

: Not available

#### Ecoredualility

: Not available

#### Mobility

: Not available

### 13. Disposal consideration

Residual disposal : Mixed with flammable organic solvents and burn in a chemical incinerator equipped with an afterburner and a scrubber. Or entrust approved waste disposal companies with the disposal.

Containers : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

### 14. Transport information

UN class : It is not regulated under UN regulations.

### 15. Regulatory information

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

### 16. Other information

References Dictionary of Organic Compounds, The society of Synthetic Organic Chemistry, Kodansha Ltd. (1985)

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, and it has the same required elements on the Material Safety Data Sheet (MSDS) which is prepared based on JIS Z7250:2010.