Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking
   Product identifier:
   Product name: EMI-FSI
   Product code (SDS NO): 3029E-1
   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
   (Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

3. Composition/information on ingredients
   Mixture/Substance selection:
   Substance
   Ingredient name: 1-Ethyl-3-methylimidazolium bis(fluorosulfonyl)imide
   Content (%):-
   Chemical formula: C8H11F2N3O4S2
   CAS No.: 235789-75-0
   MW: 291.32

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.
   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.

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 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.

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.

7. Handling and storage

Precautions for safe handling

Preventive measures
- 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/Incompatibility
- Wear protective gloves, protective clothing or face protection.
- When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities
- Keep container tightly closed.
- Store in a cool, dry place. Do not store in direct sunlight.

8. Exposure controls/personal protection

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 properties
  Appearance: Liquid (20°C)
  Color: Colorless to pale yellow, Clear
  Odor: Odourless
  pH data N.A.
Phase change temperature
  Initial Boiling Point/Boiling point data N.A.
  Boiling range data N.A.
  Melting point/Freezing point data N.A.
  Decomposition temperature data N.A.
  Flash point data N.A.
  Auto-ignition temperature data N.A.
  Explosive properties data N.A.
  Vapor pressure data N.A.
  Specific gravity/Density: 1.44g/cm³(20°C)
Solubility
  Solubility in water: Insoluble
  n-Octanol/water partition coefficient data N.A.

10. Stability and Reactivity
Reactivity
  N.A.
Chemical stability
  Stable under normal storage/handling conditions.
Possibility of hazardous reactions
  N.A.
Conditions to avoid
  Contact with incompatible materials.
  Contact with fire source.
Incompatible materials
  Strong oxidizing agents
Hazardous decomposition products
  Carbon oxides, Fluorine compound

11. Toxicological Information
Information on toxicological effects
No Acute toxicity data available
No Irritant properties data available
No Allergenic and sensitizing effects data available
No Mutagenic effects data available
No Carcinogenic effects data available
No reproductive toxicity data available
No STOT—single/repeated exposure data available
No Aspiration hazard data available

12. Ecological Information
   Ecotoxicity
   No Aquatic toxicity data available
   No Persistence and degradability data available
   No Bioaccumulative potential data available
   No Mobility in soil data available
   Ozone depleting chemical data not available

13. Disposal considerations
   Waste treatment methods
   Dispose of contents/container in accordance with local/national regulation.

14. Transport Information
   Not applicable to UN No.
   IMDG Code (International Maritime Dangerous Goods Regulations)
   Not applicable to IMDG Code
   IATA Dangerous Goods Regulations
   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
   Other regulatory information
   Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information
   The product is not applicable to GHS classifications.
   Reference Book
   Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), 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)
   2018 TLVs and BEIs. (ACGIH)
   http://monographs.iarc.fr/ENG/Classification/index.php
   Supplier's data/information
   General Disclaimer
   This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It is advised to make their own tests to determine the safety and suitability of each such product or combination for their own purposes.
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 2017).