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

Product identifier:
- **Product name:** Ca[N(SO2CF3)2]2
- **Product code (SDS NO):** 1473E-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

2. Hazards identification

GHS classification and label elements of the product

**Classification of the substance or mixture**
- **HEALTH HAZARDS**
  - **Skin corrosion/irritation:** Category 1B
  - **Specific target organ toxicity – single exposure:** Category 3 (Respiratory tract irritation)

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

**Label elements**

Signal word: Danger

HAZARD STATEMENT
- Causes severe skin burns and eye damage
- May cause respiratory irritation

PRECAUTIONARY STATEMENT

**Prevention**
- 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 or face protection.

**Response**
- **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.
- Wash contaminated clothing before reuse.
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

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

**Disposal**
- Dispose of contents/container in accordance with local/national regulation.
3. Composition/information on ingredients
Mixture/Substance selection:
Substance
Ingredient name: Calcium bis(trifluoromethane sulfonyl)imide
Content (%):--
Chemical formula: Ca[N(SO2CF3)2]
CAS No.: 165324-09-4
MW: 600.39

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. Do NOT induce vomiting.
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.
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.

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.
Avoid raising dust.
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

(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.
(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 or 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.
Wash contaminated clothing 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

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: Powder
   Color: White
   Odor: Odourless
   pH data is not available.
   Boiling point or initial boiling point data is not available.
   Boiling range data is not available.
   Melting point/Freezing point data is not available.
   Decomposition temperature data is not available.
   Flammability (gases, liquids and solids) data is not available.
   Flash point data is not available.
   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 data is not available.
   Kinematic viscosity data is not available.
   Solubility:
      Solubility in water data is not available.
   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 bases, Strong oxidizing agents
    Hazardous decomposition products
    Carbon oxides, Sulfur oxides, Nitrogen oxides, Fluorine compound, Calcium compound

11. Toxicological Information
    Information on toxicological effects
    Acute toxicity data is not available.
    Irritant properties
    Skin corrosion/irritation
    [Company proprietary data]
    (Calcium bis(trifluoromethane sulfonyl)imide)
    Category 1B
    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
[cat.3 (resp. irrit.)]
[Company proprietary data]
(Calcium bis(trifluoromethane sulfonyle)imide)
Respiratory tract irritation
STOT—repeated exposure data is not available.
Aspiration hazard data is not available.
Additional data
May cause lung disorders by massive inhalation of powdered substance.
—e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

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

14. Transport Information
UN No.: 1759
Proper Shipping Name:
CORROSIVE SOLID, N.O.S.
Class or division: 8
Packing group: II
ERG GUIDE No.: 154
Special provisions No.: 274
IMDG Code (International Maritime Dangerous Goods Regulations)
UN No.: 1759
Proper Shipping Name:
CORROSIVE SOLID, N.O.S.
Class or division: 8
Packing group: II
Special provisions No.: 274
IATA Dangerous Goods Regulations
UN No.: 1759
Proper Shipping Name:
CORROSIVE SOLID, N.O.S.
Class or division: 8
Hazard labels: Corrosive
Packing group: II
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
GHS classification and labelling
Skin Corr. 1B: H314 Causes severe skin burns and eye damage
STOT SE 3: H335 May cause respiratory 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 (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).