

Date of issue: 2021/11/04

# Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Pyrrole SDS No. : 6581E-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: Chemical Safety Management Department 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 PHYSICAL AND CHEMICAL HAZARDS Flammable liquids: Category 3 Label elements

Signal word: Warning HAZARD STATEMENT Flammable liquid and vapor PRECAUTIONARY STATEMENT Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Response In case of fire: Use appropriate media other than water to extinguish. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.



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

Substance Ingredient name:Pyrrole Content (%):99(min) Chemical formula:C4H5N Chemicals No, Japan:5-100 CAS No.:109-97-7 MW:67.09 ECNO:203-724-7 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/doctor/physician if you feel unwell.
- IF ON SKIN (or hair)
  - Take off immediately all contaminated clothing. Rinse skin with water or 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/doctor/physician if you feel unwell.

#### 5. 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

Sprinkler equipment

- Dry-powder firefighting equipment except for phosphate etc.,hydrogen carbonate etc.
- Straight stream water extinguisher
- Water mist extinguisher
- Reinforcing liquid jet extinguisher
- Bucket of water or tank of water
- Drying sand

### Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame 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	
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	
(Protective measures against fire and explosion)	
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No	
smoking.	
Ground and bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting equipment.	
Use non-sparking tools.	
Take action to prevent static discharges.	
(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	

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.



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Eye protection

Wear eye/face protection.

9. Physical and Chemical Properties Information on basic physical and chemical properties Physical state: Liquid Color: Colorless to pale yellow Odor: Characteristic odor Melting point/Freezing point: -23°C Boiling point or initial boiling point data is not available. 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: (Pyrrole)39°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 (45g/L) n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Density and/or relative density: 0.97 Relative vapor density (Air=1) data is not available. Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity
Not available.

Chemical stability

Turns brown on exposure to air.

Possibility of hazardous reactions

Not available.

Conditions to avoid

Contact with fire source.

Incompatible materials

Not available.
Hazardous decomposition products
Carbon oxides, Nitrogen 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



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STOT-single exposure data is not available. STOT-repeated exposure data is not available. Aspiration hazard data is not available.

12. Ecological Information
Ecotoxicity
Aquatic toxicity
Hazardous to the aquatic environment (Acute)
[GHS Cat. Japan, base data]
(Pyrrole)
Fish (Pimephales promelas) LC50=210mg/L/96hr (Aquire, 2011)
Water solubility
(Pyrrole)
4.5 g/100 ml (PHYSPROP_DB, 2011)
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 UN No. or ID No.: 1993 UN Proper Shipping Name : FLAMMABLE LIQUID, N.O.S. Class or division (Transport hazard class): 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 Chemicals listed in TSCA Inventory

Pyrrole

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, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2021 TLVs and BEIs. (ACGIH)

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 2020).