

# SAFETY DATA SHEET

PRODUCT NAME **Bromobenzene**

Date of issue 30/1/2012

Date of revision/ 3/4/2025

Last confirmation

## 1. Identification of the substance or mixture and the supplier

Product name	Bromobezene
SDS No.	GHS-0032E
Name of supplier	Kyoto Electronics Manufacturing Co., Ltd.
Address	68 Ninodan-cho, Shinden, Kisshoin, Minami-ku, Kyoto, Japan
Division	Quality Assurance Department
Phone	+81-75-691-4121
Fax	+81-75-691-4127
Emergency phone	+81-75-691-4125
Recommended uses and restrictions on use	
Recommended use	For analysis
Restrictions on use	When using for purposes other than those recommended, consult a specialist.

## 2. Hazard identification

GHS classification

Physical hazards

Flammable liquids	Category 3
-------------------	------------

Health hazards

Acute toxicity / Inhalation	Category 3
Skin corrosion / Irritation	Category 2
Specific target organ toxicity (repeated exposure)	Category 2(Nervous system)
	Category 2(Kidney)

Environmental hazards

Short-term (acute) aquatic hazard	Category 2
Long-term (chronic) aquatic hazard	Category 2

GHS label elements

Hazard pictograms



Signal word	Danger
Hazard statements	<p>H226 Flammable liquid and vapor.</p> <p>H315 Causes skin irritation.</p> <p>H331 Toxic by inhalation</p> <p>H373 May cause damage to organs (respiratory tract system) through prolonged or repeated exposure.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>
Precautionary statements	
Prevention	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground and bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.</p> <p>P242 Use non-sparking tools.</p> <p>P243 Take action to prevent static discharges.</p> <p>P260 Do not breathe mist or vapors.</p> <p>P264 Wash skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P273 Avoid release to the environment.</p>
Response	<p>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P311 Call a POISON CENTER/ doctor.</p> <p>P314 If feel unwell, seek medical advice/attention.</p> <p>P321 Special treatment is required.</p> <p>P332 + P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</p> <p>P391 Collect spillage.</p>

Storage	P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Disposal	P501 Dispose of contents/ container to an approved waste disposal plant.
Other hazards which do not result in classification	None known.

### 3. Composition/Information on ingredients

substance / mixture                      substance

Components

No.	Chemical name	CAS No.	Concentration (% w/w)	ENCS / ISHL number
1	Bromobenzne	108-86-1	>99	3-32

### 4. First-aid measures

General advice	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	Call a POISON CENTER or doctor/physician if you feel unwell. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
In case of skin contact	Wash immediately with soap and plenty of water.
In case of eye contact	If eye irritation persists: Get medical advice/ attention. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
If swallowed	Rinse mouth. If swallowed, DO NOT induce vomiting. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	No data available
Notes to physician	Treat symptomatically.

### 5. Fire-fighting measures

Suitable extinguishing media	Water Carbon dioxide (CO <sub>2</sub> )
------------------------------	--

	Dry sand
	Regular foam
Unsuitable extinguishing media	High volume water jet
Specific hazards during fire fighting	Thermal decomposition can release irritating and toxic gases and vapors. Do not allow run-off from fire fighting to enter drains or water courses.
Specific extinguishing methods	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	Use personal protective equipment.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

## 7. Handling and storage

### Handling

Advice on protection against fire and explosion	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling	Take measures to fully prevent the generation of electrostatic discharges near the chemical. Keep away from fire, sparks and heated surfaces. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Only use in an area with an appropriate level of exhaust ventilation.
Avoidance of contact	No data available
Hygiene measures	When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

#### Storage

Conditions for safe storage

Keep in a well-ventilated place.

Avoid storing in high temperatures or in direct sunlight to help maintain this chemical's quality.

Keep container tightly closed and sealed.

Further information on storage  
stability

No chemical decomposition when stored and applied as directed.

## 8. Exposure controls/Personal protection

Threshold limit value and permissible exposure limits for each component in the work environment

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Respiratory protection      Suitable respiratory equipment

Hand protection material      Protective gloves

Eye protection      Safety glasses

Skin and body protection      Protective suit

## 9. Physical and chemical properties

Physical state	Liquid.
Color	Colorless, transparent
Odor	Peculiar odor
Melting point / Freezing point	-31 °C
Initial boiling point and boiling range	155 °C
Flammability (liquids)	No data available
Lower explosion limit and upper explosion limit / flammability limit	
Upper explosion limit / Upper flammability limit	36.5 %(w/w)
Lower explosion limit / Lower flammability limit	6 %(w/w)
Flash point	51 °C
Decomposition temperature	No data available
pH	No data available
Autoignition temperature	556 °C
Self-Accelerating decomposition temperature (SADT)	No data available
Viscosity	
Viscosity, kinematic	No data available

#### Solubility(ies)

Water solubility	No data available
Solubility in other solvents	Easily soluble in ethanol
Partition coefficient: n-octanol/water	2.99
Vapor pressure	No data available
Density and / or relative density Relative density	1.49 g/cm <sup>3</sup> (20°C)
Relative vapor density	No data available
Particle characteristics Particle size	No data available

## 10. Stability and reactivity

Reactivity	No data available
Chemical stability	May be altered by light
Possibility of hazardous reactions	No decomposition if stored and applied as directed.
Conditions to avoid	Avoid contact with heat, flames, sparks, high temperatures and direct sunlight, static electricity and sparks.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Carbon monoxide, carbon dioxide, halides

## 11. Toxicological information

Acute toxicity	
Acute oral toxicity	LD50(Rat) 2,383 mg/kg
Acute inhalation toxicity	LC50(Rat) 21,000 mg/m <sup>3</sup> (24h)
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Not classified based on available information.
Respiratory or skin sensitization	
Skin sensitization	Category 2
Respiratory sensitization	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	May cause damage to organs (kidney, Nervous system) through prolonged or repeated exposure.
Aspiration toxicity	Not classified based on available information.
Remarks	No data available

## 12. Ecological information

Ecotoxicity	EC50 (Daphnia magna) 1.6 mg/L, Exposure time 24 h
Persistence and degradability	Decomposition rate: 0% by BOD (Ministry of Economy, Trade and Industry Existing Chemical Substance Safety Inspection)
Bioaccumulation	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	Not applicable
Other adverse effects	No data available

## 13. Disposal considerations

Waste from residues	Can be incinerated, when in compliance with local regulations. Send to a licensed waste management company.
Contaminated packaging	Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of contents/ container to an approved waste disposal plant.

## 14. Transport information

### International Regulations

#### IATA-DGR

UN / ID No.	UN2514
Proper shipping name	BROMOBENZENE
Class	3
Packing group	III

#### IMDG-Code

UN No.	UN2514
Proper shipping name	BROMOBENZENE
Class	3
Packing group	III
Marine pollutant	Applicable

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation	Please refer to the law and local regulations, etc. in each country
Special precautions for user	The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged

material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. Regulatory information

## 16. Other information

### Citations/References

NITE-Gmiccs (National Institute of Technology and Evaluation)

NITE-CHRIIP (National Institute of Technology and Evaluation)

Workplace Safety Site (Ministry of Health, Labor and Welfare)

SDS from various upstream manufacturers

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.