

# SAFETY DATA SHEET

Revision Date 25-Mar-2024

**Revision Number** 3

### 1. Identification

**Product Name** 

### 1-Bromo-4-iodobenzene

Cat No. : A13859

CAS No Synonyms

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Benzene, 1-bromo-4-iodo-

### Details of the supplier of the safety data sheet

### <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

589-87-7

### 2. Hazard(s) identification

### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

### Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### **Precautionary Statements** Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

### Eves

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

### Storage

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

### Store locked up

### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

### 3. Composition/Information on Ingredients

1-		Weight %			
-ot	589-87-7	98			
4. Fi	rst-aid measures				
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. medical attention.					
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.					
Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.					
Clean mouth with water. Get medical attention.					
No information available.					
Treat symptomatically					
	Rinse immediate medical attentio Wash off immed clothes and sho Remove from ex respiration. Get Clean mouth with No information a	<ul> <li>medical attention.</li> <li>Wash off immediately with soap and plenty of wate clothes and shoes. Get medical attention.</li> <li>Remove from exposure, lie down. Remove to fresh respiration. Get medical attention.</li> <li>Clean mouth with water. Get medical attention.</li> <li>No information available.</li> </ul>			

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO $_2$ ). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen halides. Hydrogen iodide.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health 2	Flammability 1	Instability 0	Physical hazards N/A					
	6. Accidental release measures								
	nal PrecautionsEnsure adequate ventilation. Use personal protective equipment as required.nmental PrecautionsSee Section 12 for additional Ecological Information.								
Methods Up	for Containment and C	lean Sweep up and shovel into environment.	suitable containers for disposa	I. Do not let this chemical enter the					
		7. Handling	and storage						
Handling		Avoid contact with skin and seek immediate medical a		o not ingest. If swallowed then					
Storage.		Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from direct sunlight. Incompatible Materials. Strong oxidizing agents.							
	8.	Exposure controls	/ personal protecti	on					
Exposure	e Guidelines		ain any hazardous materials w gion specific regulatory bodies.						
Engineer	ing Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash st and safety showers are close to the workstation location.							
<u>Personal</u>	Protective Equipment								
Eye/fa	ace Protection		e eyeglasses or chemical safe ection regulations in 29 CFR 19	ty goggles as described by 910.133 or European Standard					

Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.Respiratory ProtectionNo protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

Physical State Pol	wder Solid
Appearance Bei	ige
	lorless
Odor Threshold No	information available
pH No	information available
Melting Point/Range 89	) - 93 °C / 192.2 - 199.4 °F
	20 - 122 °C / 248 - 251.6 °F @ 14 mmHg
	information available
Evaporation Rate Not	t applicable
Flammability (solid,gas) No	information available
Flammability or explosive limits	
Upper No	data available
Lower No	data available
Vapor Pressure No	information available
Vapor Density Not	t applicable
Specific Gravity No	information available
Solubility No	information available
Partition coefficient; n-octanol/water No	data available
Autoignition Temperature Not	t applicable
Decomposition Temperature No	information available
Viscosity Not	t applicable
Molecular Formula C6	H4 Br I
Molecular Weight 282	2.9

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available				
Stability	Stable under normal conditions. Light sensitive.				
Conditions to Avoid	Exposure to light. Incompatible products.				
Incompatible Materials	Strong oxidizing agents				
Hazardous Decomposition Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Hydrogen halides, Hydrogen iodide				
Hazardous Polymerization	No information available.				
Hazardous Reactions	None under normal processing.				

### 11. Toxicological information

### Acute Toxicity

Product Information Component Information	No acute toxicity information is available for this product					
Toxicologically Synergistic Products	No information available					
Delayed and immediate effects as well as chronic effects from short and long-term exposure						
Irritation	No information available					
Sensitization	No information available					

### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Benzene,	589-87-7	Not listed	Not listed	Not listed	Not listed	Not listed	
1-bromo-4-iodo-							
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	S	No information ava	ailable.				
Developmental Effect	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated exp		Respiratory system None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	both acute and	d No information available					
Endocrine Disruptor	Information	No information available					
Other Adverse Effec	ts	The toxicological properties have not been fully investigated.					

12. Ecological information

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea			
Benzene, 1-bromo-4-iodo-	Not listed	Not listed	EC50 = 1.21 mg/L 5 min	Not listed			
			EC50 = 1.42 mg/L 15 min				
			EC50 = 1.59 mg/L 30 min				
Persistence and Degradab	nd Degradability No information available						
Bioaccumulation/ Accumu	Ilation No information	tion No information available.					
Mobility	No informa						
	13.	Disposal conside	rations				
Waste Disposal Methods	hazardous	Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.					

	14. Transport information
DOT	Not regulated
DOT TDG	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzene, 1-bromo-4-iodo-	589-87-7	Х	ACTIVE	-

Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzene, 1-bromo-4-iodo-	589-87-7	-	Х	209-662-7	-	-		-	Х	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable		

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

### Other International Regulations

#### Mexico - Grade

No information available

### Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · J · · · J	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Benzene, 1-bromo-4-iodo-	589-87-7	-	-	-

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzene, 1-bromo-4-iodo-	589-87-7	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzene, 1-bromo-4-iodo-	589-87-7	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date Print Date Revision Summary	25-Mar-2024 25-Mar-2024 New emergency telephone response service provider.

### Disclaimer

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

## **End of SDS**