

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product Name

1-Bromo-4-iodobenzene

Cat No. : AC218380000; AC218380050; AC218380250; AC218381000

CAS No Synonyms 589-87-7 Benzene, 1-bromo-4-iodo-

Recommended Use Uses advised against

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

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **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

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

589-87-7	98			
4. First-aid measures	5			
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 immediately with plenty of water, als medical attention. Wash off immediately with soap and plenty clothes and shoes. Get medical attention. Remove from exposure, lie down. Remove respiration. Get medical attention. Clean mouth with water. Get medical atten No information available.			

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 re	elease measures				
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment as required. See Section 12 for additional Ecological Information.					
Methods for Containment and C Up	lean Sweep up and shovel into environment.	suitable containers for disposal	. Do not let this chemical enter the			
	7. Handling	and storage				
Handling	Avoid contact with skin an seek immediate medical a	d eyes. Do not breathe dust. Do sssistance.	o not ingest. If swallowed then			
Storage.		ell-ventilated place. Keep contai ble Materials. Strong oxidizing a				
8.	Exposure controls	/ personal protection	on			
Exposure Guidelines		tain any hazardous materials wi gion specific regulatory bodies.	ith occupational exposure			
Engineering Measures		on, especially in confined areas. ose to the workstation location.	Ensure that eyewash stations			
Personal Protective Equipment						
Eye/face Protection		ve eyeglasses or chemical safet tection regulations in 29 CFR 19				

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. No protective equipment is needed under normal use conditions. **Respiratory Protection Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	89 - 93 °C / 192.2 - 199.4 °F
Boiling Point/Range	120 - 122 °C / 248 - 251.6 °F @ 14 mmHg
Flash Point	No information available
Evaporation Rate	Not 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 applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C6 H4 Br I
Molecular Weight	282.9

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	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen halides, Hydrogen iodide			
Hazardous Polymerization	No information available.			
Hazardous Reactions	None under normal processing.			

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic	No acute toxicity information is available for this product No information available			
Products	vell 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	No information available							
Reproductive Effect	S	No information ava	ailable.							
Developmental Effect	cts	No information ava	ailable.							
Teratogenicity		No information available.								
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				
			EC50 = 1.42 mg/L 15 min			
			EC50 = 1.59 mg/L 30 min			
Persistence and Degradab	ability No information available					
Bioaccumulation/ Accumu	mulation No information available.					
Mobility	No informa	ation available.				
	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 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	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation 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

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

CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
589-87-7	Not applicable	Not applicable	Not applicable	Not applicable
CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
	589-87-7	589-87-7 Not applicable	Pollutant 589-87-7 Not applicable	Pollutant Potential 589-87-7 Not applicable Not applicable Not applicable

		(2012/18/EC) - Qualifying Quantities for Major Accident Notification	(2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	(Hazardous Waste)
		Notification	Requirements		
Benzene, 1-bromo-4-iodo-	589-87-7	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally
	Harmonized System of Classification and Labeling of Chemicals (GHS).

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