

## SAFETY DATA SHEET

Creation Date 24-Nov-2010

Revision Date 25-Apr-2019

Revision Number 4

### 1. Identification

**Product Name** Bromine

**Cat No. :** AC402840000; AC402840010; AC402841000; AC402845000

**CAS-No** 7726-95-6  
**Synonyms** Bromine molecule.; Diatomic bromine; Dibromine

**Recommended Use** Laboratory chemicals.  
**Uses advised against** Food, drug, pesticide or biocidal product use.  
**Details of the supplier of the safety data sheet**

**Company**  
Fisher Scientific  
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)

Acute Inhalation Toxicity - Vapors	Category 1
Skin Corrosion/Irritation	Category 1 A
Serious Eye Damage/Eye Irritation	Category 1

**Label Elements**

**Signal Word**  
Danger

**Hazard Statements**  
Fatal if inhaled  
Causes severe skin burns and eye damage



**Most important symptoms and effects**

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

**Notes to Physician**

Treat symptomatically

**5. Fire-fighting measures**

**Suitable Extinguishing Media**

Suitable (S) Tj flse494 A7 0 0 09l

## 9. Physical and chemical properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Red brown
<b>Odor</b>	Strong
<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting Point/Range</b>	-7.2 °C / 19 °F
<b>Boiling Point/Range</b>	58.7 °C / 137.7 °F
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid,gas)</b>	Not applicable
<b>Flammability or explosive limits</b>	
<b>Upper</b>	No data available
<b>Lower</b>	No data available
<b>Vapor Pressure</b>	230 mbar @ 20 °C
<b>Vapor Density</b>	5.51 (Air = 1.0)
<b>Specific Gravity</b>	3.111
<b>Solubility</b>	No information available
<b>Partition coefficient; n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available
<b>Viscosity</b>	0.314 cs at 25 °C
<b>Molecular Formula</b>	Br <sub>2</sub>
<b>Molecular Weight</b>	159.82

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<b>Stability</b>	Stable under normal conditions. May intensify fire; oxidizer.
<b>Conditions to Avoid</b>	Incompatible products. Excess heat.
<b>Incompatible Materials</b>	Organic materials, Strong oxidizing agents, Ammonia, Fluorine, Metals, Reducing Agent
<b>Hazardous Decomposition Products</b>	Hydrogen halides, Thermal decomposition can lead to release of irritating gases and vapors
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.

## 11. Toxicological information

### Acute Toxicity

#### Product Information

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bromine	LD50 = 2600 mg/kg ( Rat )	Not listed	Not listed
<b>Toxicologically Synergistic Products</b>	No inf		

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its volatility.

**Component**  
Bromine

**log Pow**  
1.03

### 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a 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

**UN-No** UN1744  
**Proper Shipping Name** BROMINE  
**Hazard Class** 8  
**Subsidiary Hazard Class** 6.1  
**Packing Group** I

#### TDG

**UN-No** UN1744  
**Proper Shipping Name** BROMINE  
**Hazard Class** 8  
**Subsidiary Hazard Class** 6.1  
**Packing Group** I

#### IATA

**UN-No** UN1744  
**Proper Shipping Name** BROMINE FORBIDDEN FOR IATA TRANSPORT  
**Hazard Class** 8  
**Subsidiary Hazard Class** 6.1  
**Packing Group** I

#### IMDG/IMO

**UN-No** UN1744  
**Proper Shipping Name** BROMINE  
**Hazard Class** 8  
**Subsidiary Hazard Class** 6.1  
**Packing Group** I

### 15. Regulatory information

#### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Bromine	7726-Tu726-T74	Td(Active/Inact230 0 30 0 30 0 )	TjTd(p)0 0 Tf 0160	

**U.S. Federal Regulations**

**SARA 313**

**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**