

# SAFETY DATA SHEET

Creation Date 18-May-2009

Revision Date 25-Dec-2021

Revision Number 5

1. Identification

# **Product Name**

# 2-Bromo-4-fluoroaniline

Cat No. :

AC303310000; AC303310050

CAS No Synonyms 1003-98-1 No information available

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)

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

# Label Elements

Signal Word Warning

# **Hazard Statements**

Causes skin irritation Causes serious eye irritation May cause respiratory irritation Harmful if swallowed, in contact with skin or if inhaled



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

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

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

## Eyes

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

## Ingestion

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

Rinse mouth

## 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

Component	CAS No	Weight %
2-bromo-4-fluoroaniline	1003-98-1	<=100

# 4. First-aid measures

General AdviceIf symptoms persist, call a physician.Eye ContactRinse immediately with plenty of water, also under the eye

ontactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get<br/>medical attention.

Skin ContactWash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,<br/>call a physician.

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.		
Ingestion	Clean mouth with water and drink afterwards plenty of water.		
Most important symptoms and effects	None reasonably foreseeable.		
Notes to Physician	Treat symptomatically		

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media	No information available
Flash Point	104 °C / 219.2 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	
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 (CO<sub>2</sub>). Nitrogen oxides (NOx). Hydrogen fluoride.

## **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.

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Health 2	Flammability 1	Instability 1	Physical hazards N/A	
6. Accidental release measures				
Personal Precautions Environmental Precautions	Ensure adequate ventilatio Should not be released into	n. Use personal protective equ	lipment as required.	

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

7. Handling and storage			
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Ensure adequate ventilation.		
Storage.	Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. To maintain product quality: Keep refrigerated. Incompatible Materials. Strong oxidizing agents. Strong acids.		
	8. Exposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure		

limitsestablished by the region specific regulatory bodies.

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers	
	are close to the workstation location.	

# Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
<b>Skin and body protection</b> Wear appropriate protective gloves and clothing to prevent skin exposure.			
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

# 9. Physical and chemical properties

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Physical State	Liquid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	40 - 41 °C / 104 - 105.8 °F
Boiling Point/Range	221 °C / 429.8 °F
Flash Point	104 °C / 219.2 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.67
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C6 H5 Br F N
Molecular Weight	190.02

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Air sensitive. Light sensitive.	
Conditions to Avoid	Incompatible products. Excess heat. Exposure to air. Exposure to light.	
Incompatible Materials	Strong oxidizing agents, Strong acids	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen fluoride		
Hazardous Polymerization	No information available.	

lazardous Reactions None under normal processing.					
11. Toxicological information					
Acute Toxicity					
Product Information Component Information	The toxicological p	roperties have not	been fully investig	ated	
Toxicologically Synergistic Products	No information ava	ailable			
Delayed and immediate effects as w	ell as chronic effe	cts from short an	d long-term expo	<u>sure</u>	
Irritation	Irritating to eyes, re	espiratory system	and skin		
Sensitization	No information ava	ailable			
Carcinogenicity	The table below in	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico
2-bromo-4-fluoroanilin 1003-98-1 e	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects	No information ava	ailable			
Reproductive Effects	No information ava	ailable.			
Developmental Effects	No information ava	ailable.			
Teratogenicity	No information ava	ailable.			
STOT - single exposure STOT - repeated exposure	Respiratory system None known				
Aspiration hazard	No information available				
Symptoms / effects,both acute and delayed	No information available				
Endocrine Disruptor Information	No information available				
Other Adverse Effects	The toxicological properties have not been fully investigated.				
	12. Ecological information				
Ecotoxicity Do not empty into drains.					
Persistence and Degradability	No information available				
<b>Bioaccumulation/ Accumulation</b>	No information available.				
Mobility	No information available.				
	13. Dispo	sal conside	erations		
Waste Disposal Methods 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.			gional, and		
	14. Transport information				
DOT	Not regulated				

<u>TDG</u> IATA IMDG/IMO	Not regulated Not regulated Not regulated	
	15. Regulatory information	

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2-bromo-4-fluoroaniline	1003-98-1	-	-	-

#### 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
2-bromo-4-fluoroaniline	1003-98-1	-	-	-	-	-		-	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			
<b>OSHA</b> - 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			
<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	Slight risk, Grade 1			

# Authorisation/Restrictions according to EU REACH

#### 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)
2-bromo-4-fluoroaniline	1003-98-1	Not applicable	Not applicable	Not applicable	Not applicable
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)
2-bromo-4-fluoroaniline	1003-98-1	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	18-May-2009 25-Dec-2021 25-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