

# SAFETY DATA SHEET

Revision Date 19-Jan-2018

**Revision Number** 3

## 1. Identification

## Product Name 4-Bromoisoquinoline

## AC107090000; AC107090010; AC107090100

CAS-No Synonyms

Cat No. :

1532-97-4 No information available

Recommended Use Uses advised against Laboratory chemicals. Not for 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 oral toxicity Acute dermal toxicity Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure)	Category 4 Category 4 Category 2 Category 2 Category 3
Target Organs - Respiratory system.	Calegory 5

#### Label Elements

Signal Word Warning

## **Hazard Statements**

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



#### 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/sprav

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 %
4-Bromoisoquinoline	1532-97-4	98

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.	
Inhalation	Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial respiration. Obtain medical attention.	
Ingestion	Clean mouth with water. Get medical attention.	
Most important symptoms and effects	No information available.	

Notes to Physician	Treat symptomatically		
	5. Fire-fighting measures		
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.		
Unsuitable Extinguishing Media	No information available		
Flash Point	> 110 °C / > 230 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits	No information available		
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

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO2) Hydrogen halides

#### **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.

NFPA	h Flammabil	lity Instability	Physical hazards
Healt	1	0	N/A
	6. Accid	ental release measur	es

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions	See Section 12 for additional ecological information.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Up

7. Handling and storage		
Handling	Avoid contact with skin and eyes. Do not breathe dust.	
Storage	Keep in a dry place. Keep container tightly closed. Keep refrigerated.	
8. E	xposure 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	Ensure adequate ventilation, especially in confined areas. 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.	

Skin and body protection	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

**Physical State** Appearance Odor **Odor Threshold** pН . Melting Point/Range Boiling Point/Range **Flash Point Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity **Molecular Formula Molecular Weight** 

#### Solid Beige Odorless No information available No information available 39 - 43 °C / 102.2 - 109.4 °F 280 - 285 °C / 536 - 545 °F @ 760 mmHg > 110 °C / > 230 °F Not applicable No information available No data available No data available No information available Not applicable No information available No information available No data available No information available

No information available Not applicable C9 H6 Br N 208.06

## 10. Stability and reactivity

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

11. Toxicological information

## Acute Toxicity

**Product Information Component Information Toxicologically Synergistic** No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Irritation		No information available				
Sensitization		No information available				
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
4-Bromoisoquinoline	1532-97-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effec	ts	No information ava	ailable.			
Developmental Effe	ects	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expo STOT - repeated ex		Respiratory systen None known	n			
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	s,both acute and	d No information available				
Endocrine Disrupto	or Information	n No information available				
Other Adverse Effe	Effects The toxicological properties have not been fully investigated.					
		12. Ecol	ogical infor	mation		
<u>Ecotoxicity</u> Do not empty into dra	ains.					
Persistence and De	egradability	No information ava	ailable			
Bioaccumulation/ A	cumulation/ Accumulation No information available.					
Mobility		No information available.				
		13. Dispo	sal conside	erations		
Waste Disposal Me	thods	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. Tran	sport infor	mation		
		1102211				
UN-No UN2811 Hazard Class 6.1						
Packing Group III						
TDG						
<b>UN-No</b> UN2811						
Hazard Class 6.1						
Packing Group		111				

Hazard Class	6.1
Packing Group	III
IATA	
UN-No	2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.*
Hazard Class	6.1
Packing Group	111
IMDG/IMO	
UN-No	2811

Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	III
	15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
4-Bromoisoquinoline	-	-	-	216-244-8	-		-	-	-	-	-

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b)	Not applicable					
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 Not applicable	n Administration					
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					
	16. Other information					

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	19-Jan-2018 19-Jan-2018 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**