

ALFAAB25377

# 4-Bromo-3-methylbenzonitrile

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

产品说明:	4-溴-3-甲基苯甲腈
Product Description:	4-Bromo-3-methylbenzonitrile
Cat No. :	<b>B25377</b>
CAS No	41963-20-6
Molecular Formula	C8 H6 Br N
Supplier	Avocado Research Chemicals Ltd. (Part of Thermo Fisher Scientific) Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom Office Tel: +44 (0) 1524 850506 Office Fax: +44 (0) 1524 850608
Emergency Telephone Number	For information <b>US</b> call: 001-800-227-6701 / <b>Europe</b> call: +32 14 57 52 11 Emergency Number <b>US</b> :001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99 <b>CHEMTREC</b> Tel. No. <b>US</b> :001-800-424-9300 / <b>Europe:</b> 001-703-527-3887
E-mail address	begel.sdsdesk@thermofisher.com
Recommended Use	Laboratory chemicals.
Uses advised against	No Information available

## **SECTION 2. HAZARD IDENTIFICATION**

Physical State	Appearance	Odor
Solid	White	No information available
Harmful if swallowed. Harmful in contact w	Emergency Overview ith skin. Causes skin irritation. Causes cause respiratory irritation.	serious eye irritation. Harmful if inhaled. May

#### Classification of the substance or mixture

Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity - (single exposure)	Category 3

#### Label Elements



## 4-Bromo-3-methylbenzonitrile

#### Signal Word

#### Warning

### Hazard Statements

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled

#### **Precautionary Statements**

#### Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face protection

#### Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P312 - Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

P362 + P364 - Take off contaminated clothing and wash it before reuse

### Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

#### **Physical and Chemical Hazards**

#### None identified.

#### **Health Hazards**

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

#### Environmental hazards

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility. Spillage unlikely to penetrate soil. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

This product does not contain any known or suspected endocrine disruptors.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	Weight %
4-Bromo-3-methylbenzonitrile	41963-20-6	<=100

## **SECTION 4. FIRST AID MEASURES**

#### General Advice

If symptoms persist, call a physician.

#### 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 plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

## 4-Bromo-3-methylbenzonitrile

## Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

#### Most important symptoms and effects

None reasonably foreseeable.

#### Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

#### Notes to Physician

Treat symptomatically.

### **SECTION 5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## Extinguishing media which must not be used for safety reasons

No information available.

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

#### **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.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### **Personal Precautions**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

#### **Environmental Precautions**

Should not be released into the environment. See Section 12 for additional Ecological Information.

#### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

Refer to protective measures listed in Sections 8 and 13.

### **SECTION 7. HANDLING AND STORAGE**

#### Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

### Specific Use(s)

Use in laboratories

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

## 4-Bromo-3-methylbenzonitrile

#### Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust MDHS70 General methods for sampling airborne gases and vapours MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

#### **Exposure Controls**

#### **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

#### Personal protective equipment

Eye Protection	Goggles	(European standard	I - EN 166)		
Hand Protection	Protectiv	ve gloves			
Glove material Nitrile rubber Neoprene Natural rubber PVC	Breakthrough time See manufacturers recommendations	Glove thickness -	EU standard EN 374	Glove comments (minimum requirement)	

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection	Long sleeved clothing
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced <b>Recommended Filter type:</b> Particulates filter conforming to EN 143
Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. <b>Recommended half mask:-</b> Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appeara	nce
Physical	State

White Solid

OdorNo information availableOdor ThresholdNo data available

4-Bromo-3-methylbenzonitrile

рН	No information available	
Melting Point/Range	52 - 54 °C / 125.6 - 129.2 °F	
Softening Point	No data available	
Boiling Point/Range	129 - 130 °C / 264.2 - 266 °F	
Flash Point	96 °C / 204.8 °F	Method - No information available
Evaporation Rate	Not applicable	Solid
Flammability (solid,gas)	No information available	
Explosion Limits	No data available	
Vapor Pressure	No data available	
Vapor Density	Not applicable	Solid
Specific Gravity / Density	No data available	
Bulk Density	No data available	
Water Solubility	Insoluble in water	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/wa	iter)	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Viscosity	Not applicable	Solid
Explosive Properties	No information available	
Oxidizing Properties	No information available	
Melecular Formula		
Molecular Formula	C8 H6 Br N	
Molecular Weight	196.05	

## **SECTION 10. STABILITY AND REACTIVITY**

Stability	Stable under normal conditions.
Hazardous Reactions Hazardous Polymerization	None under normal processing. No information available.
Conditions to Avoid	None known.
Materials to avoid	No information available.

Hazardous Decomposition Products None under normal use conditions.

## SECTION 11. TOXICOLOGICAL INFORMATION

Product Information	
(a) acute toxicity;	
(b) skin corrosion/irritation;	Category 2
(c) serious eye damage/irritation;	Category 2
(d) respiratory or skin sensitization; Respiratory Skin	No data available No data available
(e) germ cell mutagenicity;	No data available
(f) carcinogenicity;	No data available

## SAFETY DATA SHEET

## 4-Bromo-3-methylbenzonitrile

		4-Bromo-3-methylbenzonitme		
(h) STOT-single exposure;       Category 3         Results / Target organs       Respiratory system         (i) STOT-repeated exposure;       No data available         Target Organs       No information available.         (j) aspiration hazard;       Not applicable Solid         Symptoms / effects,both acute and delayed       No information available         Ecotoxicity effects       Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.         Persistence and Degradability Persistence       Insoluble in water, Persistence is unlikely, based on information available.         Bioaccumulative Potential       May have some potential to bioaccumulate         Mobility in soil       Spillage unlikely to penetrate soil The product contains volatile organic compounds (VOI which will evaporate easily from all surfaces. Is not likely mobile in the environment due low water solubility Will likely be mobile in the environment due to its volatility         Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential       This product does not contain any known or suspected endocrine disruptors This product does not contain any known or suspected substance		There are no known carcinogenic chemicals in this product		
Results / Target organs       Respiratory system         (i) STOT-repeated exposure;       No data available         Target Organs       No information available.         (j) aspiration hazard;       Not applicable Solid         Symptoms / effects,both acute and delayed       No information available         Ecotoxicity effects       Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.         Persistence and Degradability Persistence       Insoluble in water, Persistence is unlikely, based on information available.         Bioaccumulative Potential       May have some potential to bioaccumulate         Mobility in soil       Spillage unlikely to penetrate soil The product contains volatile organic compounds (VOI which will evaporate easily from all surfaces. Is not likely mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility Will likely be mobile in the environment due low water solubility due and contain any known or	(g) reproductive toxicity;	No data available		
(i) STOT-repeated exposure;       No data available         Target Organs       No information available.         (j) aspiration hazard;       Not applicable Solid         Symptoms / effects,both acute and delayed       No information available         Section 12. ECOLOGICAL INFORMATION         Ecotoxicity effects       Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.         Persistence and Degradability Persistence       Insoluble in water, Persistence is unlikely, based on information available.         Bioaccumulative Potential       May have some potential to bioaccumulate         Mobility in soil       Spillage unlikely to penetrate soil The product contains volatile organic compounds (VOC which will evaporate easily from all surfaces. Is not likely mobile in the environment due low water solubility Will likely be mobile in the environment due tow water solubility Will likely be mobile in the environment due tow water solubility Will likely be mobile in the environment due tow water solubility Will likely be mobile in the environment due tow water solubility Will likely be mobile in the environment due tow water solubility Will likely be mobile in the environment due tow water solubility Will likely be mobile in the environment due tow water solubility Will likely be mobile in the environment due tow atter solubility Will likely be mobile in the environment due tow atter solubility Will likely be mobile in the environment due tow atter solubility Will likely be mobile in the environment due tow atter solubility Will likely be mobile in the environment due tow atter solubility Will likely be mobile in the environment due tow at	(h) STOT-single exposure;	Category 3		
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Persistent Organic Pollutant       This product does not contain any known or suspected substance         Ozone Depletion Potential       This product does not contain any known or suspected substance	Mobility in soil	Spillage unlikely to penetrate soil The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces Is not likely mobile in the environment due its low water solubility Will likely be mobile in the environment due to its volatility		
SECTION 13. DISPOSAL CONSIDERATIONS	Persistent Organic Pollutant	This product does not contain any known or suspected substance		
		SECTION 13. DISPOSAL CONSIDERATIONS		

Waste from Residues/Unused Waste is classified as hazardous. Dispose of in accordance with the European Directives Products on waste and hazardous waste. Dispose of in accordance with local regulations. **Contaminated Packaging** Dispose of this container to hazardous or special waste collection point. Waste codes should be assigned by the user based on the application for which the product **Other Information** was used. Do not empty into drains.

## **SECTION 14. TRANSPORT INFORMATION**

### Road and Rail Transport

**UN-No** 

UN3439

## 4-Bromo-3-methylbenzonitrile

Proper Shipping Name Technical Shipping Name Hazard Class Packing Group	NITRILES, SOLID, TOXIC, N.O.S. (4-Bromo-3-methylbenzonitrile) 6.1 III
IMDG/IMO	
UN-No Proper Shipping Name Technical Shipping Name Hazard Class Packing Group	UN3439 NITRILES, SOLID, TOXIC, N.O.S. (4-Bromo-3-methylbenzonitrile) 6.1 III
IATA	
UN-No Proper Shipping Name Technical Shipping Name Hazard Class Packing Group	UN3439 NITRILES, SOLID, TOXIC, N.O.S. (4-Bromo-3-methylbenzonitrile) 6.1 III
Special Precautions for User	No special precautions required
	SECTION 15. REGULATORY INFORMATION

#### International Inventories

X = listed, China (IECSC), Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), Korea (KECL).

Component		List of dangerous goods GB 12268 - 2012	TCSI	IECSC	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	AICS	KECL
4-Bromo-3-methylbenz onitrile	-	-	X	-	-	-	-	-	-		-	-

## National Regulations

## **SECTION 16. OTHER INFORMATION**

Prepared By
Revision Date
Revision Summary

Health, Safety and Environmental Department 04-May-2024 New emergency telephone response service provider.

#### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

### Legend

## 4-Bromo-3-methylbenzonitrile

CAS - Chemical Abstracts Service	<b>TSCA</b> - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemica	al DSL/NDSL - Canadian Domestic Substances List/Non-Domestic
Substances/EU List of Notified Chemical Substances	Substances List
<b>PICCS</b> - Philippines Inventory of Chemicals and Chemical Substances	ENCS - Japanese Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances	AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances	NZIOC - New Zealand Inventory of Chemicals
WEL - Workplace Exposure Limit	TWA - Time Weighted Average
ACGIH - American Conference of Governmental Industrial Hygienists	IARC - International Agency for Research on Cancer
DNEL - Derived No Effect Level	PNEC - Predicted No Effect Concentration
RPE - Respiratory Protective Equipment	LD50 - Lethal Dose 50%
LC50 - Lethal Concentration 50%	EC50 - Effective Concentration 50%
<b>NOEC</b> - No Observed Effect Concentration	<b>POW</b> - Partition coefficient Octanol:Water
<b>PBT</b> - Persistent, Bioaccumulative, Toxic	vPvB - very Persistent, very Bioaccumulative
,	-,, -, -, -,
ICAO/IATA - International Civil Aviation Organization/International Air	IMO/IMDG - International Maritime Organization/International Maritime
Transport Association	Dangerous Goods Code
ADR - European Agreement Concerning the International Carriage of	MARPOL - International Convention for the Prevention of Pollution from
Dangerous Goods by Road	Ships
OECD - Organisation for Economic Co-operation and Development	ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor	VOC - (Volatile Organic Compound)
Key literature references and sources for data	
•	
https://echa.europa.eu/information-on-chemicals	RTEOO
Suppliers safety data sheet, Chemadvisor - LOLI, Merck index,	KIEUS

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 Safety Data Sheet**