

SAFETY DATA SHEET

Creation Date 22-Oct-2010

Revision Date 24-Jul-2023

Revision Number 5

1. Identification

Product Name

2-Nitrobenzyl bromide

Cat No. :

AC148310000; AC148310050; AC148310100; AC148310250

CAS No Synonyms

3958-60-9 alpha-Bromo-o-nitrotoluene

Recommended Use Uses advised against

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

Details of the supplier of the safety data sheet

Company Fisher Scien

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 Category 1 B Category 1

Label Elements

Signal Word Danger

Hazard Statements

Causes severe skin burns and eye damage



Precautionary Statements Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

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

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Eyes

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

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

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 %	
.alphaBromo-2-nitrotoluene		3958-60-9	<= 100	
	4.	First-aid measures		
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also und the eyelids, for at least 15 minutes.			
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.			
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required.			
Ingestion	Do NOT induce vomiting. Call a physician immediately.			
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	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	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
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. Hydrogen cyanide (hydrocyanic acid). **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 Health 3	Flammability 1	Instability 0	Physical hazards N/A				
	6. Accidental re	lease 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 Cle Up	an Sweep up and shovel into environment.	suitable containers for disposal	Do not let this chemical enter the				
	7. Handling	and storage					
Handling		ical assistance. Handle product	thing. Do not ingest. If swallowed only in closed system or provide				
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from moisture. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Bases. Strong oxidizing agents. Alcohols. Amines.						
8. E	Exposure controls	/ personal protection	on				
Exposure Guidelines		tain any hazardous materials wi gion specific regulatory bodies.	th 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 ection regulations in 29 CFR 19					

	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.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State
Appearance
Odor
Odor Threshold
рН
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

Powder Solid Dark yellow Odorless No information available No information available 44 - 48 °C / 111.2 - 118.4 °F No information available 110 °C / 230 °F Not applicable No information available

No data available No data available No information available Not applicable No information available No data available Not applicable Not applicable Not applicable C7 H6 Br N O2 216.03

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Temperatures above 80°C. Incompatible products. Exposure to moisture.
Incompatible Materials	Bases, Strong oxidizing agents, Alcohols, Amines
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen halides, Hydrogen cyanide (hydrocyanic acid)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	May react with metals and lead to the formation of flammable hydrogen gas.
	11. Toxicological information
Acute Toxicity	

Product Information Component Information No acute toxicity information is available for this product

Toxicologically Syn Products	ergistic	No information available						
Delayed and immed	liate effects as w	vell as chronic effects from short and long-term exposure_						
Irritation		No information available						
Sensitization		No information available						
Carcinogenicity		The table below in	The table below indicates whether each agency has listed any ingredient as a carcinogen.					
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
.alphaBromo-2-nitrot oluene	3958-60-9	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable					
Reproductive Effect	ts	No information ava	ailable.					
Developmental Effe	cts	No information ava	ailable.					
Teratogenicity		No information ava	ailable.					
STOT - single expos STOT - repeated exp		None known None known						
Aspiration hazard		No information ava	ailable					
Symptoms / effects delayed	s,both acute and	nd 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						
Endocrine Disrupto	r Information	No information available						
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.						
12. Ecological information								
Ecotoxicity Do not empty into dra	ains.							
Persistence and De	gradability	Insoluble in water						
Bioaccumulation/ A	ccumulation	No information available.						
Mobility		Is not likely mobile in the environment due its low water solubility.						
		13. Disposal considerations						
Waste Disposal Met	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.				gional, and		
		14. Tran	isport infori	mation				
DOT UN-No Proper Shipping Technical Name Hazard Class Packing Group TDG		UN3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. .alphaBromo-2-nitrotoluene 8 II						
UN-No Proper Shipping	g Name	UN3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.						

Hazard Class Packing Group	8 II
UN-No	UN3261
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Hazard Class	8
Packing Group	I
IMDG/IMO	
UN-No	UN3261
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Hazard Class	8
Packing Group	II
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
.alphaBromo-2-nitrotoluene	3958-60-9	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
.alphaBromo-2-nitrotoluene	3958-60-9	-	-	223-558-9	-	-	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

U.S. Department of Homeland	This product does not contain any DHS chemicals.
DOT Marine Pollutant DOT Severe Marine Pollutant	N N
, , ,	
Reportable Quantity (RQ):	Ν

Other International Regulations

Mexico - Grade

Security

No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · J · · · J	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
.alphaBromo-2-nitrotoluene	3958-60-9	-	-	-

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)
.alphaBromo-2-nitrotoluene	3958-60-9	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)
.alphaBromo-2-nitrotoluene	3958-60-9	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 22-Oct-2010 Revision Date 24-Jul-2023 Print Date 24-Jul-2023 Revision Summary 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