

Safety Data Sheet 17009V3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 12/14/2018

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3-Bromotoluene
CAS No	: 591-17-3
Product code	: 1700-9-V3
Formula	: C7H7Br
Synonyms Other means of identification	: 1-Bromo-3-methylbenzene : MFCD0000085
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the sa	afety data sheet
SynQuest Laboratories, Inc.	
P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097	ica
info@synquestlabs.com - www.synquestlab	<u>os.com</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	tion
2.1. Classification of the substance	
Classification (GHS-US)	
Acute Tox. 4 (Oral) H302 - Harmful if swa	allowed
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin iEye Irrit. 2AH319 - Causes serioSTOT SE 3H335 - May cause re	allowed irritation bus eye irritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin iEye Irrit. 2AH319 - Causes serioSTOT SE 3H335 - May cause reFull text of H-phrases: see section 16	allowed irritation bus eye irritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin iEye Irrit. 2AH319 - Causes serioSTOT SE 3H335 - May cause reFull text of H-phrases: see section 162.2.Label elements	allowed irritation bus eye irritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin iEye Irrit. 2AH319 - Causes serioSTOT SE 3H335 - May cause reFull text of H-phrases: see section 16	allowed irritation bus eye irritation
Acute Tox. 4 (Oral) H302 - Harmful if swa Skin Irrit. 2 H315 - Causes skin i Eye Irrit. 2A H319 - Causes serio STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	allowed irritation bus eye irritation
Acute Tox. 4 (Oral) H302 - Harmful if swa Skin Irrit. 2 H315 - Causes skin i Eye Irrit. 2A H319 - Causes serio STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	allowed irritation bus eye irritation espiratory irritation
Acute Tox. 4 (Oral) H302 - Harmful if swa Skin Irrit. 2 H315 - Causes skin i Eye Irrit. 2A H319 - Causes serio STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	Allowed irritation bus eye irritation espiratory irritation
Acute Tox. 4 (Oral) H302 - Harmful if swa Skin Irrit. 2 H315 - Causes skin i Eye Irrit. 2A H319 - Causes serio STOT SE 3 H335 - May cause response Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	 allowed irritation bus eye irritation espiratory irritation espiratory irritation irritation

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

· ·	-,
	P302+P352 - If on skin: Wash with plenty of soap and water
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water/shower
	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/physician if you feel unwell
	P321 - Specific treatment (see supplemental first aid instructions on this label)
	P330 - Rinse mouth
	P332+P313 - If skin irritation occurs: Get medical advice/attention
	P337+P313 - If eye irritation persists: Get medical advice/attention
	P362+P364 - Take off contaminated clothing and wash it before reuse
	P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed
	P403+P235 - Store in a well-ventilated place. Keep cool
	P405 - Store locked up
	P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information	on on in	gredients		
.1. Substance				
Substance type : Mono-constituent				
Name		Product identifier	%	Classification (GHS-US)
3-Bromotoluene (Main constituent)		(CAS No) 591-17-3	<= 100	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16				
.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
.1. Description of first aid measures				
ïrst-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personne		
irst-aid measures after inhalation		ove person to fresh air and keep comfort ration. Get immediate medical advice/att		g. If not breathing, give artificial
irst-aid measures after skin contact	: Wasl	n with plenty of soap and water. Get imm	ediate medical a	advice/attention.
ïrst-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
irst-aid measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical		
.2. Most important symptoms and effe	cts, both	acute and delayed		
symptoms/injuries		most important known symptoms and effeand/or in section 11.	ects are describe	ed in the labelling (see section
.3. Indication of any immediate medic	al attentio	on and special treatment needed		
reat symptomatically.				
ECTION 5: Firefighting measures				
.1. Extinguishing media				
uitable extinguishing media		nol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
.2. Special hazards arising from the su	ubstance	or mixture		
ïre hazard	: Ther	mal decomposition generates: Carbon o	kides. Hydrogen	bromide.
xplosion hazard		of explosion if heated under confinement ainers. May form flammable/explosive va		ay or fog for cooling exposed

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.3.	Advice for firefighters	
Firefigh	nting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protect	tion during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release measures		

6.1. Personal precautions, protective	Personal precautions, protective equipment and emergency procedures			
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.			
6.1.1. For non-emergency personnel				
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.			
6.1.2. For emergency responders				
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.			
6.2. Environmental precautions				

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for e	Methods and material for containment and cleaning up		
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Methods for cleaning up	Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.		
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

8.2. Exposure controls			
Appropriate engineering controls		work station. Emergency eye wash fountains a nediate vicinity of any potential exposure.	nd safety showers
Hand protection	: Protective gloves. 29 CFR 19	10.138: Hand Protection.	
Eye protection	: Chemical goggles or safety gl	asses. Face shield. 29 CFR 1910.133: Eye and	Face Protection.
Skin and body protection	: Wear suitable protective cloth	ng.	
Respiratory protection : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910. Protection.		34: Respiratory	
12/17/2018	EN (English LIS)	SDS ID: 17009\/3	3/7

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information

: Safety shoes. 29 CFR 1910.136: Foot Protection.

Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.		
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: -40 °C		
Freezing point	: No data available		
Boiling point	: 182 - 184 °C		
Flash point	: 59 °C		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: No data available		
Explosion limits	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Vapor pressure	: 1 mm Hg (at 14.8 °C)		
Relative density	: No data available		
Relative vapor density at 20 °C	: No data available		
Specific gravity / density	: 1.4099 g/ml (@ 20 °C)		
Molecular mass	: 171.034 g/mol		
Solubility	: No data available		
Log Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
9.2. Other information			
Refractive index	: 1.5521		
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
The product is stable at normal handling and storage conditions.			
10.3. Possibility of hazardous reactions			
No additional information available			
10.4. Conditions to avoid			
Keep away from heat, sparks and flame.			
10.5. Incompatible materials			
Strong oxidizing agents.			
10.6. Hazardous decomposition products			
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			

Acute toxicity

: Oral: Harmful if swallowed.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

3-Bromotoluene (591-17-3)	
ATE US (oral)	500.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information			
12.1. Toxicity			
No additional information available			
12.2. Persistence and degradability			
No additional information available			
12.3. Bioaccumulative potential			
No additional information available			
12.4. Mobility in soil			
No additional information available			
12.5. Other adverse effects			
No additional information available			

SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1993 Flammable liquids, n.o.s., 3, III
UN-No.(DOT)	: UN1993
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols



: III - Minor Danger

: 203

- : 242
- : G Identifies PSN requiring a technical name

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal			
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150			
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L			
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.			
Other information	: No supplementary information available.			
TDG No additional information available				
Transport by sea				
UN-No. (IMDG)	: 1993			
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.			
Class (IMDG)	: 3 - Flammable liquids			
Packing group (IMDG)	: III - substances presenting low danger			
Air transport				
UN-No. (IATA)	: 1993			
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.			
Class (IATA)	: 3 - Flammable Liquids			
Packing group (IATA)	: III - Minor Danger			
SECTION 15: Regulatory information				
15.1. US Federal regulations				
3-Bromotoluene (591-17-3)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
All compare where of their anomaly does listed, an evoluted different listed on the United Otation Frankreiter Annual Tanka				

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

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Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

National regulations

3-Bromotoluene (591-17-3)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

IC.	text of it philases.				
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4			
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A			
	Flam. Liq. 3	Flammable liquids Category 3			
	Skin Irrit. 2	Skin corrosion/irritation Category 2			
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3			
[H226	Flammable liquid and vapor			
	H302	Harmful if swallowed			
[H315	Causes skin irritation			
	H319	Causes serious eye irritation			
	H335	May cause respiratory irritation			

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.	
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.