

SAFETY DATA SHEET

Revision Date 26-Mar-2024

Revision Number 3

1. Identification

Product Name

Triphenylbismuth

603-33-8

Cat No.: 12545

CAS No Synonyms

Recommended Use Uses advised against Triphenylbismuthine. Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **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

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %		
Bismuthine, triphenyl-		603-33-8	98		
	4. First-ai	d measures			
ye Contact	Rinse immediately with p	lenty of water, also under th	ne eyelids, for at least 15 minutes.		
Skin Contact	Wash off immediately wit clothes and shoes.	h soap and plenty of water	while removing all contaminated		
Inhalation Remove from exposure, lie down. Remove to fresh air.					
Ingestion	Do NOT induce vomiting plenty of water. If possibl		buth to an unconscious person. Drink		
Most important symptoms and effects	No information available.				
Notes to Physician	Treat symptomatically				
	5. Fire-fight	ing measures			
Suitable Extinguishing Media	Water spray. Carbon dio:	xide (CO 2). Dry chemical. A	lcohol resistant foam.		
Unsuitable Extinguishing Media	No information available				
Flash Point Method -	No information available No information available				
Autoignition Temperature Explosion Limits	No information available				
Upper	No data available				
Lower Sensitivity to Mechanical Impac	No data available				
Sensitivity to Static Discharge	No information available				
Specific Hazards Arising from the Keep product and empty container av		of ignition.			
Hazardous Combustion Products Thermal decomposition can lead to re metal oxides. Protective Equipment and Precauti As in any fire, wear self-contained bre	ons for Firefighters eathing apparatus pressure	-demand, MSHA/NIOSH (a			
protective gear. Thermal decompositi	on can lead to release of ir	ritating gases and vapors.			
NFPA Health 0	Flammability 0	Instability 0	Physical hazards N/A		
	6. Accidental re	elease measures	· · · · · · · · · · · · · · · · · · ·		
Personal Precautions Environmental Precautions	Ensure adequate ventilat See Section 12 for addition	ion. Use personal protectiv onal Ecological Information			

Up

	7. Handling and storage
Handling	Avoid contact with skin and eyes. Avoid contact with skin and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical assistance. Wash thoroughly after handling.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.
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	None under normal use conditions.
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	No protective equipment is needed under normal use conditions.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

	a. Physical and chemical properties
Physical State	Powder Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	78 - 80 °C / 172.4 - 176 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/wat	er No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C18 H15 Bi
Molecular Weight	440.29

10. Stability and reactivity							
Reactive Hazard	None known, based on information available						
Stability	Stable under normal conditions. Moisture sensitive.						
Conditions to Avoid	Incompatible produ	Incompatible products.					
Incompatible Materials	Strong oxidizing ag	gents					
Hazardous Decomposition Product	s Thermal decompos monoxide (CO), Ca				Carbon		
Hazardous Polymerization	No information ava	ilable.					
Hazardous Reactions	None under norma	I processing.					
	11. Toxico	logical info	ormation				
Acute Toxicity							
Product Information Component Information	No acute toxicity in	formation is availa	able for this produc	t			
Toxicologically Synergistic	No information ava	ilable					
Products Delayed and immediate effects as w	vell as chronic effe	cts from short an	d long-term expo	sure			
Irritation	No information ava	ilable					
Sensitization	No information ava	ilable					
Carcinogenicity	The table below in	dicates whether ea	ach agency has list	ted any ingredient a	as a carcinogen.		
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Bismuthine, triphenyl- 603-33-8	Not listed No information ava	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects Reproductive Effects	No information ava						
Developmental Effects	No information available.						
Teratogenicity	No information available.						
STOT - single exposure STOT - repeated exposure	None known None known						
Aspiration hazard No information available							
Symptoms / effects,both acute and No information available delayed							
Endocrine Disruptor Information No information available							
Other Adverse Effects	The toxicological p	roperties have not	been fully investig	jated.			
	12. Ecological information						

Ecotoxicity May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability

Insoluble in water May persist

Bioaccumulation/ Accumulation No information available.				
Mobility	Is not likely mobile in the environment due its low water solubility.			
	13. Disposal considerations			
Waste Disposal Methods	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. Transport information			
DOT TDG IATA	Not regulated Not regulated Not regulated			

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

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Bismuthine, triphenyl-	603-33-8	Х	ACTIVE	-

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
Bismuthine, triphenyl-	603-33-8	Х	-	210-033-4	Х	-	Х	-	-	KE-34734

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and	Not applicable

Health Administration

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · J· · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Bismuthine, triphenyl-	603-33-8	-	-	-

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)
Bismuthine, triphenyl-	603-33-8	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

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)
Bismuthine, triphenyl-	603-33-8	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information		
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com		
Revision Date Print Date Revision Summary	26-Mar-2024 26-Mar-2024 New emergency telephone response service provider.		

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