

Material Safety Data Sheet

according to ANSI Z400.1-2004

Copper tetraMIBI tetrafluoroborate [Cu(MIBI)4]BF4

Print date: 17.04.2013

Product code: 7211

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product identifier**

Copper tetraMIBI tetrafluoroborate [Cu(MIBI)4]BF4

Further trade names

Copper(1+),tetrakis[1-[isocyano-kappaC)-2-methoxy-2-methylpropane]-,(T-4),tetrafluoroborate(1-)

Synonyms:

Tetrakis (2-methoxy isobutyl isonitrile) Copper (I) tetrafluoroborate; Propane.

1-isocyano-2-methoxy-2-methyl-,

copper complex; Cardio-Spect; [Cu(MIBI)4]BF4; Copper tetraMIBI tetrafluoroborate

Chemical characterization (substance)

Copper(1+),tetrakis[1-[isocyano-kappaC)-2-methoxy-2-methylpropane]-,(T-4),tetrafluoroborate(1-)

CAS No: 103694-84-4

Details of the supplier of the safety data sheet

Company name: ABX advanced biochemical compounds
Biomedizinische Forschungsreagenzien GmbH

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Emergency telephone: +49 3528 4041 60**SECTION 2: Hazards identification****Route(s) of Entry****Signs and Symptoms of Exposure**

Carcinogenicity (NTP):

Carcinogenicity (IARC):

Carcinogenicity (OSHA):

SECTION 3: Composition/information on ingredients**Substances**Sum formula: C₂₄H₄₄CuN₄O₄ x BF₄

Molecular weight: 602.98

Hazardous components

CAS No	Components	Quantity
103694-84-4	Copper tetraMIBI tetrafluoroborate	95 - 100 %

SECTION 4: First aid measures

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Description of first aid measures

SECTION 5: Firefighting measures

Extinguishing media

SECTION 6: Accidental release measures

SECTION 7: Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

2
8

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure controls

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state:

Color:

Test method

Changes in the physical state

Melting point:

102 °C

SECTION 10: Stability and reactivity

Stability:

Stable

Possibility of Hazardous Reactions:

Will not occur

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

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CAS No	Components				
	Exposure routes	Method	Dose	Species	Source
103694-84-4	Copper tetraMIBI tetrafluoroborate				
	oral	LD50	123 mg/kg		
	dermal	ATE	300 mg/kg		
	inhalative vapour	ATE	3 mg/l		
	inhalative aerosol	ATE	0,5 mg/l		

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SECTION 12: Ecological information**SECTION 13: Disposal considerations****Waste treatment methods****SECTION 14: Transport information****US DOT 49 CFR 172.101**

<u>ID Number:</u>	3467
<u>Proper shipping name</u>	Organometallic compound, toxic, solid, n.o.s. (Copper tetra MIBI tetrafluoroborate)
<u>Hazard Class or Division:</u>	6.1
<u>Packing group:</u>	II
Label:	6.1

Marine transport (IMDG)

<u>UN number:</u>	3467
<u>UN proper shipping name:</u>	Organometallic compound, toxic, solid, n.o.s. (Copper tetra MIBI tetrafluoroborate)
<u>Transport hazard class(es):</u>	6.1
<u>Packing group:</u>	II

Air transport (ICAO)

<u>UN number:</u>	3467
<u>UN proper shipping name:</u>	Organometallic compound, toxic, solid, n.o.s. (Copper tetra MIBI tetrafluoroborate)
<u>Transport hazard class(es):</u>	6.1
<u>Packing group:</u>	II
Hazard label:	6.1

SECTION 15: Regulatory information**U.S. Regulations****SECTION 16: Other information****Hazardous Materials Information Label (HMIS)**

Health:	2
Flammability:	1
Physical Hazard:	1
Personal Protection:	F

NFPA Hazard Ratings

Health:	2
Flammability:	1
Reactivity:	
Unique Hazard:	

